

Agenda

Marin County Employees' Retirement Association (MCERA) Retirement Board Strategic Workshop

**One McInnis Parkway, First Floor
San Rafael, CA
October 27-28, 2020**

This meeting will be held via teleconference pursuant to Executive Order N-25-20, issued by Governor Newsom on March 12, 2020, Executive Order N-29-20, issued by Governor Newsom on March 17, 2020, and Executive Order N-35-20, issued by Governor Newsom on March 21, 2020.

The public may listen to and observe the two-day meeting on YouTube at:

- October 27, 2020 – <https://youtu.be/SvYu7GIztVo>
- October 28, 2020 – <https://youtu.be/-ZKjFhDX7ic>

If members of the public wish to comment, those comments may be submitted to MCERA via email at MCERABoard@marincounty.org. This account will be monitored prior to and for the duration of the meeting. If the comment pertains to a particular agenda item, please identify that item number and the comment will be read to the Board during that discussion. Otherwise, the comment will be read under Open Time for Public Expression. All public comments submitted before or during the meeting that pertain to topics within the jurisdiction of the MCERA Board and otherwise comply with MCERA guidelines will be read in open session and kept as part of the permanent record.

The Board of Retirement encourages a respectful presentation of public views to the Board. The Board, staff and public are expected to be polite and courteous, and refrain from questioning the character or motives of others. Please help create an atmosphere of respect during Board meetings.

Day 1 October 27, 2020

Meeting Chair Steven Block

9:00 a.m.

Call to Order/Roll Call

Open Time for Public Expression

Open time for public expression, from three to five minutes per speaker, on items not on the Board Agenda. While members of the public are welcome to address the Board during this time on matters within the Board's jurisdiction, except as otherwise permitted by the Ralph M. Brown Act (Government Code Sections 54950 et seq.), no deliberation or action may be taken by the Board concerning a non-agenda item. Members of the Board may (1) briefly respond to statements made or questions posed by persons addressing the Board, (2) ask a question for clarification, or (3) provide a reference to staff for factual information.

9:00 a.m. – 10:00 a.m.

2020 Experience Study Preview – Economic Assumptions

Graham Schmidt, ASA, FCA, MAAA, EA, Consulting Actuary, Cheiron

Bill Hallmark, ASA, FCA, MAAA, EA, Consulting Actuary, Cheiron

10:00 a.m. – 10:30 a.m.

Agreement with Varde to Manage Private Debt (Action)

Review and discuss agreement with Varde to manage a portion of MCERA private debt portfolio

10:30 a.m. – 11:30 a.m.

Derivatives and Their Use in MCERA's Portfolio

Jim Callahan, President, Callan LLC

David Zee, CFA, Senior Vice President, Global Manager Research, Callan LLC

11:30 a.m. – 12 p.m.

Abbott Capital Management – Private Equity Review

Jonathan Roth

Ryan Green

12:00 p.m. – 12:30 p.m.

Pathway Capital Management – Private Equity Review

Jim Reinhardt

Valerie Ruddick

12:30 p.m. – 1:30 p.m.

Lunch Break

1:30 p.m. – 2:30 p.m.

Private Equity Annual Review and Pacing Plan

Gary Robertson, Callan LLC

2:30 p.m. – 3:00 p.m.

Private Equity Annual Fee Disclosure Review

Gary Robertson, Callan LLC

3:00 p.m. – 3:30 p.m.

Closing and Follow-up Items from Today's Agenda

Day 2
October 28, 2020

9:00 a.m.

Call to Order/Roll Call

Open Time for Public Expression

9:00 a.m. – 11:00 a.m.

Fund Governance – Developing a Process to Manage Priorities

Tom Iannucci, President, Cortex Applied Research

11:00 a.m. – 11:30 a.m.

Closing and Follow-up Items from Today's Agenda

Note on Process: Items designated for information are appropriate for Board action if the Board wishes to take action. Any agenda item from a properly noticed Committee meeting held prior to this Board meeting may be considered by the Board.

Note on Voting: As provided by statute, the Alternate Safety Member votes in the absence of the Elected General or Safety Member, and in the absence of both the Retired and Alternate Retired Members. The Alternate Retired Member votes in the absence of the Elected Retired Member. If both Elected General Members, or the Safety Member and an Elected General Member, are absent, then the Elected Alternate Retired Member may vote in place of one absent Elected General Member.



Agenda material is provided upon request. Requests may be submitted by email to MCERABoard@marincounty.org, or by phone at (415) 473-6147.

MCERA is committed to assuring that its public meetings are accessible to persons with disabilities. If you require American Sign Language interpreters, assistive listening devices or other accommodations to participate in this meeting, these may be requested by calling (415) 499-7331 (voice) or (415) 499-6172 (TTY) at least 72 hours in advance.


The agenda is available on the Internet at <http://www.mcera.org>



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October 21, 2020

To: Members of the Board of Retirement
Marin County Employees' Retirement Association (MCERA)

From: Jeff Wickman 
Retirement Administrator

Subject: 2020 Experience Study Preview – Economic Assumptions

Background

Every three years the Board of Retirement's actuary (Cheiron) conducts an Experience Study to review the economic and demographic assumptions used by MCERA to determine the cost and funding for the total Plan. In 2020 the actuary will review MCERA's experience for the period July 1, 2017 through June 30, 2020. The final report will be used by the Board of Retirement to select assumptions that will be used for the June 30, 2020 Actuarial Valuation.

As we did with the 2014 and 2017 Experience Studies, before presenting the final Experience Study to the Board of Retirement for adoption, the actuary will first present a preview of the economic assumptions. The economic assumptions are:

- Inflation;
- Wage growth;
- Payroll and amortization payment growth;
- Cost of Living adjustments (COLAs) and;
- Expected return on assets (Discount Rate)

The preview of economic assumption experience will be presented at the Board's Strategic Workshop on October 27th. This item is on the agenda as informational only. Any Action will take place when the complete final Experience Study is presented to the Board of Retirement at its December 9, 2020 meeting.

2020 Review of Economic Assumptions

October 27, 2020

Graham Schmidt, ASA, EA, FCA, MAAA

Bill Hallmark, ASA, EA, FCA, MAAA

Topics for Discussion



- Review of Current Assumptions
- Outlook on Economic Assumptions
- Preliminary Sensitivity Analysis
- Next Steps

- Background
- Assumptions
 - Price Inflation
 - Wage Growth
 - Payroll and Amortization growth
 - COLAs
 - Expected Return on Assets



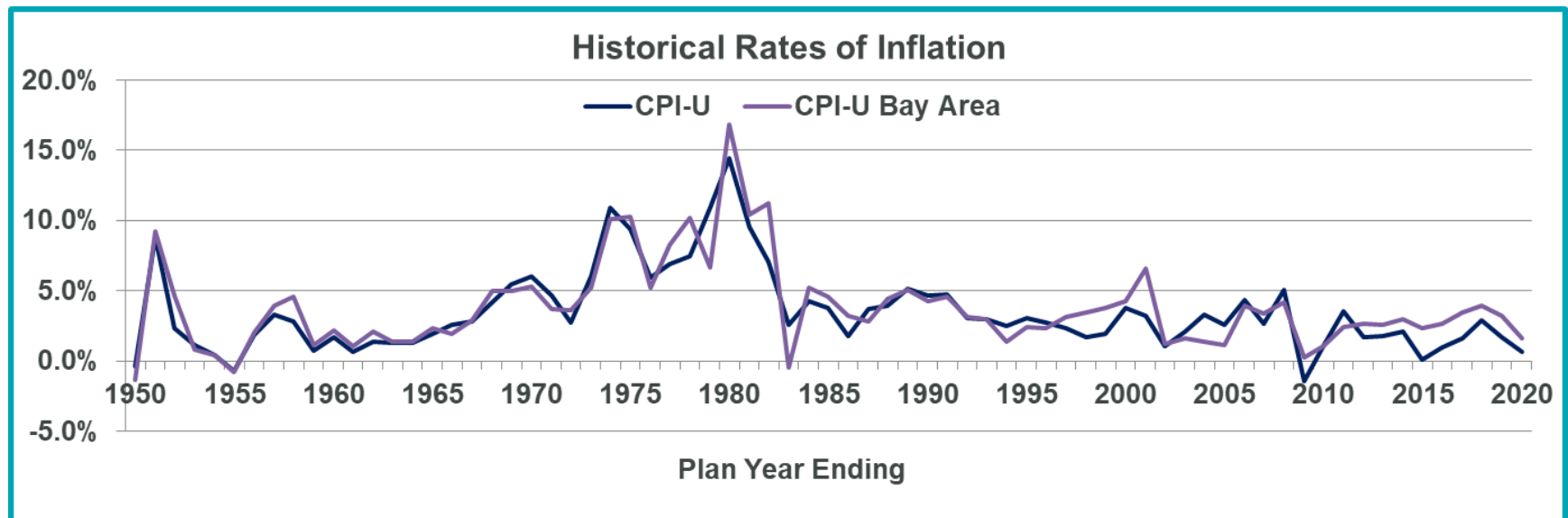
- Building block approach
 - Price Inflation is the foundation for all economic assumptions
 - Expected Return (Nominal) = Price Inflation + Real Return
 - Base Wage Growth = Price Inflation + Real Wage Growth
 - Assumptions must be reasonable, both individually AND in aggregate

Current Assumptions	
Nominal Return	7.00%
Price Inflation	2.75%
Real Return	4.25%
Wage Inflation	3.00%
Payroll/Amort Growth	3.00%
COLA (2% cap)	1.90%
COLA (3% cap)	2.60%
COLA (4% cap)	2.70%

Price Inflation



- Current Assumption: 2.75%
- Callan 10-Year Assumption: 2.25%
- Historical (annual rates shown below)
 - Average annual price inflation of 3.9% since 1970, 2.3% since 1990, 1.7% since 2010

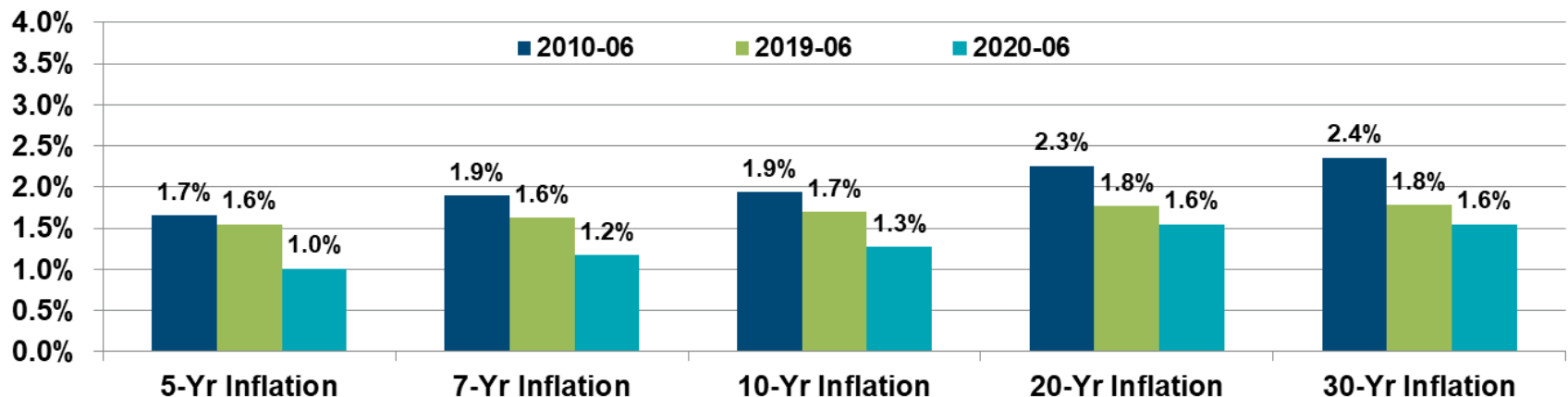


Price Inflation



- Markets provide data on inflation assumptions by investors
 - Difference between yields on inflation-protected government securities (TIPS) versus regular government bonds
 - Ex: yields on 30-year bonds implied 2.4% “break-even” inflation rate in 2010, versus 1.6% in 2020

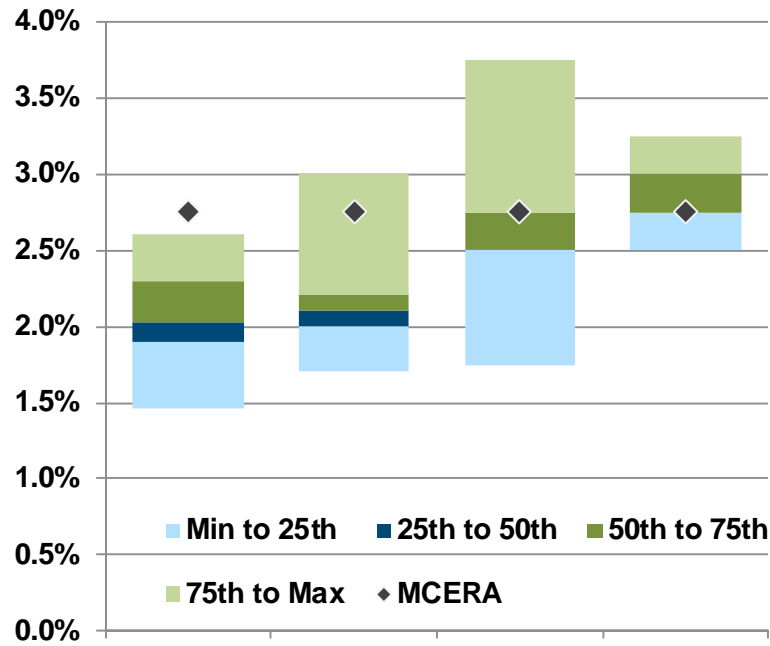
Break-Even Inflation



Price Inflation



Survey of CPI Assumptions



- Survey of Professional Forecasters published by Philadelphia Federal Reserve (10 years: 2020-2029)
- Horizon survey of Investment Consultants (2020 report)
- US Public Plan Database (2019 valuations)
- Cheiron survey of CALAPRS plan assumptions (2019 valuations)

Price Inflation



- MCERA salaries and post-retirement COLAs tied to Bay Area-specific inflation, while investments related closer to general inflation
- Historical comparison (June / June):

Period	Bay Area CPI	US CPI	Difference
2010-2020	2.8%	1.7%	1.1%
2000-2010	2.4%	2.4%	0.0%
1990-2000	3.1%	2.9%	0.2%
1980-1990	5.0%	4.6%	0.4%
1970-1980	7.9%	7.9%	0.0%

- Bay Area inflation significantly higher in most recent 10-year period (due mostly to housing price inflation), but differences much smaller (or zero) over prior 10-year periods
- Recommend using general US inflation as basis for developing assumptions, but consider impact of local differences in developing real wage growth and COLA assumptions

- Markets predicting lower inflation (less than 2.50%) over short and long term
- Current assumption (2.75%) reasonable from historical perspective, but higher than current market and average forecaster expectations
- Trend for public plans has been to gradually reduce inflation expectations, most plans now at 3.0% or lower
 - California median = 2.75%
 - National median = 2.50%
- Recommendation: reduce price inflation assumption from 2.75% to 2.50%
 - Reasonable range of 2.25% – 2.75%



- Pay for members expected to grow by
 - Base wage growth (economic assumption)
 - Plus individual amount based on longevity (demographic assumption)
- Base wage growth
 - Price inflation, plus possible real-wage factor
 - Current assumption: assume 0.25% wage growth above price inflation

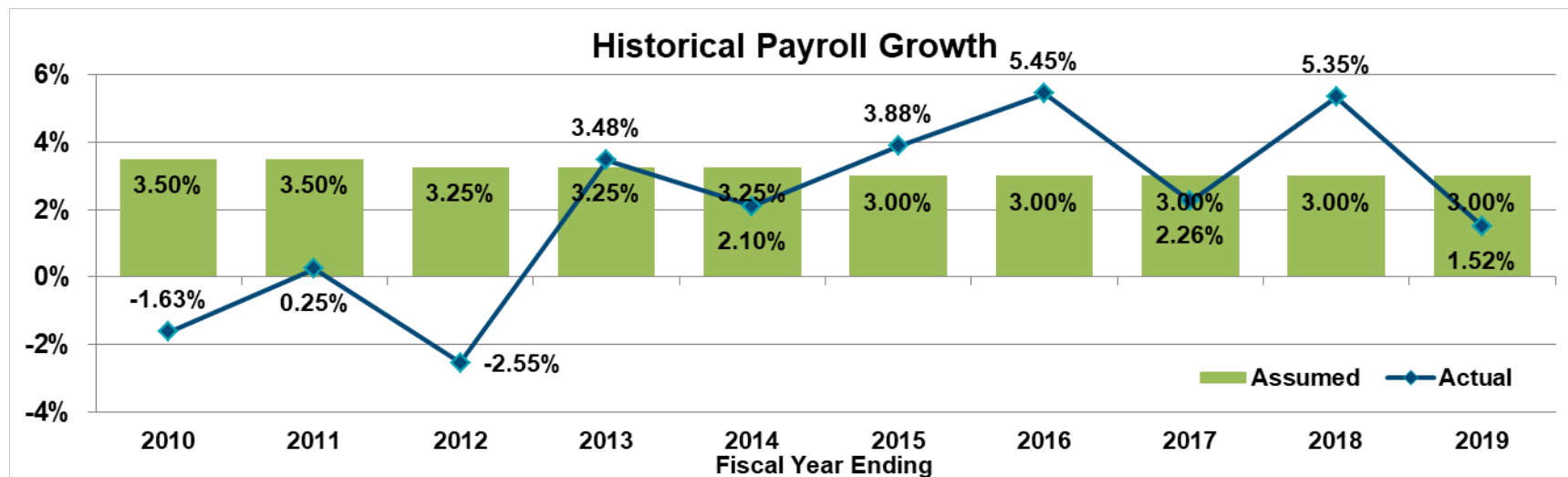


- Arguments for low real wage growth assumption
 - Budgetary environment (short, medium, long-term)
 - Crowding out of wages from other areas of compensation (healthcare and pension costs)
 - No local real wage growth above inflation for the past 10 years
 - Increase in average weekly wages for Marin local government workers of 1.8% from 2009-2019 (BLS Quarterly Census of Employment and Wages)
 - Versus CPI increase of 1.8% and 2.8%, for US and Bay Area, respectively
 - Although evidence shows presence of national historical real wage growth, increase in *mean* real wages higher than *median*

- Arguments for a positive real-wage growth assumption
 - Relaxing of some pressures
 - Improved budgetary environment (prior to COVID)
 - Slowing of other compensation cost increases (i.e., lower medical trend rates)
 - Productivity increases
 - Many experts predict return of some level of real wage growth (Social Security projections based on 0.6% – 1.8% assumed real wage growth)
 - Wages related to local (Bay Area) inflation, which has been higher than US average

- Recommendation: if price inflation assumption reduced, increase real wage growth assumption from 0.25% to 0.50%
 - e.g., retain 3.00% wage growth assumption if price inflation reduced to 2.50%
 - Reasonable range of 0.25% – 0.50%
 - Higher assumptions also consistent with forecasters expectations, but practice has been to avoid large and sudden changes in assumptions
 - Reducing this assumption will reduce liabilities (because of lower future salary expectations), but will have offsetting impact on current contributions if payroll/amortization growth rates also reduced

Payroll / Amortization Growth



- MCERA amortization policy based on “level percentage of pay” method
 - Dollar amount of UAL payments increases at rate of assumed wage growth
 - If actual payroll growth is higher, UAL payments decline as a percentage of pay
 - If actual payroll growth is lower, UAL payments increase as a percentage of pay



- Amortization growth rate can be set lower than wage growth assumption
- Possible reasons
 - Some pay amounts non-pensionable for new hires versus the members they are replacing (including impact of wage cap)
 - Budgetary stresses could cause payroll to increase by less than expected
 - Increases likelihood that UAL payments decline rather than grow as a percentage of pay



- Recommendation: adopt a payroll/amortization growth assumption 0.25% below the wage growth assumption
 - e.g., if retain 3.00% wage growth assumption, use 2.75% for projections of future pensionable pension growth and scheduled amortization payment increases
 - Also reasonable to continue to use payroll/amortization growth assumption equal to wage growth
 - Reducing this assumption won't affect liability estimates, but will increase current contributions

- Operation of COLA
 - Benefits grow by Bay Area CPI (rounded to 0.5%), subject to 2%, 3%, or 4% cap
 - Bank accumulated if CPI growth exceeds cap
- If inflation equals the assumption every year, average COLA growth should equal minimum of cap, inflation
 - Example: 3.00% inflation each year, cap of 3.0%, average COLA growth = 3.0%



- If inflation NOT the same every year, average COLA growth should be less than the cap (though possibly only slightly)
 - Assume 2% inflation for first 10 years of retirement, 4% next 10 years
 - Average inflation over time period equals 3%, but with a 3.0% cap, average COLA growth equals 2.5%
 - Inflation auto-correlated (influenced by prior year's rate), so impact will be somewhat greater in low inflation environment

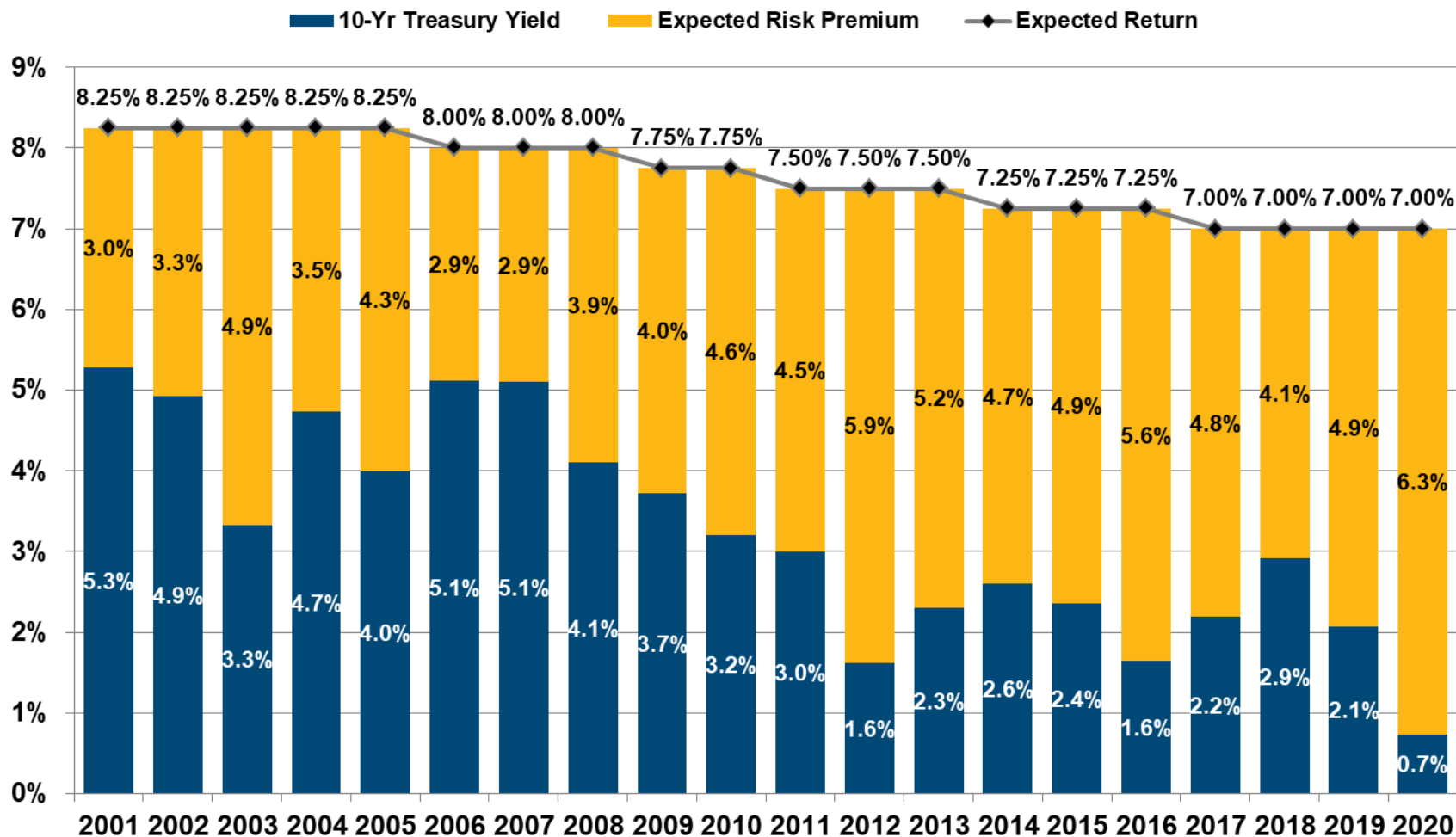
- Cheiron recently updated stochastic testing of COLA growth for MCERA, to review current COLA recommendations, and if Board decides to lower inflation assumption
 - Recommendation from our analysis:

Inflation	2.75% (current)	2.50% (recommended)	2.25% (alternative)
2% cap	1.90%	1.90%	1.90%
3% cap	2.60%	2.40%	2.20%
4% cap	2.70%	2.50%	2.25%

Expected Risk Premium



Marin CERA Expected Risk Premium



- Steps for calculation of expected returns
 - Collect assumptions of returns, risks, and correlations from investment consultant(s)
 - Model adopted target portfolio using inputs
- Current assumption
 - Nominal return: 7.00%
 - Inflation: 2.75%
 - Real Return = $7.25\% - 2.75\% = 4.25\%$
 - Net of investment, not administrative expenses
 - Administrative expenses addressed as separate assumption

- Modeling Results
 - Reviewed return assumption for *current* target portfolio under Callan capital market assumptions
 - Developed expected return using capital market assumptions from broader survey (Horizon Actuarial Services), under 10- and 20-year expectations)



- Modeling Results
 - Simulated returns should be adjusted for investment expenses of consultant, custodian, and fees for passively-managed portfolios
 - Should be minimal (e.g., used 5 basis points)
 - Assumed returns already net of active management expenses for all asset classes, including private / non-traditional classes

- Modeling Results

- Likelihood of achieving various returns over various periods using average of consultants' expectations

Likelihood of Achieving Average Returns						
(reflects 5bp adjustment for administrative and investment expenses)						
	Nominal			Real*		
	6.50%	6.75%	7.00%	3.75%	4.00%	4.25%
Callan (10-yr)	50%	47%	45%	55%	52%	50%
Horizon (10-yr)	47%	44%	42%	55%	52%	50%
Horizon (20-yr)	58%	55%	51%	66%	63%	59%
Average	52%	49%	46%	59%	56%	53%

* For purposes of this analysis, inflation assumption held constant using applicable rate from CMAs

- Modeling Results

- Return distributions using average of consultants' expectations

Expected Distribution of Average Nominal Annual Investment Returns (reflects 5bp adjustment for administrative and investment expenses)

Percentile	Callan (10-Year)	Horizon (10-Year)	Horizon (20-Year)
95th	13.5%	12.7%	11.6%
75th	9.3%	8.8%	8.9%
60th	7.5%	7.2%	7.8%
50th	6.5%	6.2%	7.1%
40th	5.4%	5.2%	6.4%
25th	3.7%	3.6%	5.2%
5th	-0.1%	0.1%	2.7%

Expected Rate of Return



- Current real return assumption (4.25%) is reasonable, consistent with Callan and Horizon 10-year expectations; slightly more conservative than survey's longer-term outlook
- On nominal basis, less than 50-50 average chance of achieving 7.00%
 - 49% for 6.75%, vs. 46% for 7.00%
 - However, average inflation assumption is 2.13%, which if realized may result in some liability gains

- Recommendation
 - Recommend lowering the inflation assumption by 0.25% (to 2.50%)
 - Larger reduction in inflation to 2.25% also reasonable
 - Recommend maintaining same US and Bay Area price inflation assumption
 - Recommend maintaining real return assumption of 4.25%
 - If price inflation reduced, consider increase real wage growth margin from 0.25% to 0.50% (i.e., retain 3.00% wage growth assumption if inflation reduced to 2.50%)
 - Could consider reduction in amortization payment growth rate separately from wage growth

Summary



- Other combinations of economic assumptions are reasonable (including current assumptions)
 - Real return: 4.00% – 4.50%
 - Price Inflation: 2.25% - 2.75%
 - Wage inflation: 2.75% - 3.00%
 - Payroll growth: 2.50% - 3.00%
- Chart and projections demonstrate preliminary total cost (i.e., employer + employee) and funded ratio impact of several sets of assumptions
 - Based on results of 6/30/2019 actuarial valuation
 - Results shown for first year and after third year of phase-in
 - Cheiron can provide results under other scenarios as requested by Board

Summary



- Differences in cost impact by employer
 - Generally, changes (such as investment and demographic experience) have a greater impact on San Rafael and Novato than the County, because of higher asset and liability to payroll ratios
 - For the economic assumptions being considered here, the impact is higher for the County, because most of their members have a 2% maximum COLA, versus 3% and 4% for San Rafael and Novato
 - All economic scenarios include a reduction in the inflation assumption, which lowers expected benefits for 3% and 4% COLA groups, but not 2%
 - If discount rate reduced, but not inflation, impact on County would be similar to what is shown, but impact for San Rafael and Novato would be higher

Summary



Assumption	Current	Recommended	Alternative 1	Alternative 2
Nominal Return	7.00%	6.75%	6.75%	6.50%
Price Inflation*	2.75%	2.50%	2.50%	2.25%
Real Return	4.25%	4.25%	4.25%	4.25%
Wage Growth	3.00%	3.00%	3.00%	2.75%
Payroll Growth	3.00%	2.75%	3.00%	2.50%

*COLA growth rates based on inflation assumption, as described on slide 18

Preliminary Sensitivity Analysis



Contribution Impact of Recommended Assumption Changes (Year 1)				
Scenario	Baseline	Recommended	I	II
Discount Rate	7.00%	6.75%	6.75%	6.50%
Price Inflation	2.75%	2.50%	2.50%	2.25%
Real Return	4.25%	4.25%	4.25%	4.25%
Wage Inflation	3.00%	3.00%	3.00%	2.75%
Payroll/Amortization Growth	3.00%	2.75%	3.00%	2.50%
Total Contribution Rate (Projected 2020 Valuation)				
County	35.5%	37.4%	37.2%	38.60%
Novato	63.2%	64.7%	64.3%	64.70%
San Rafael	74.1%	75.5%	74.9%	76.40%
Total Normal Cost Rate Increase (Employee + Employer)				
County		1.3%	1.3%	2.0%
Novato		1.2%	1.2%	1.3%
San Rafael		1.1%	1.1%	1.7%
Initial UAL Amortization Rate Increase (1st Year)				
County		0.6%	0.4%	1.1%
Novato		0.3%	(0.1%)	0.2%
San Rafael		0.3%	(0.3%)	0.6%
Total Initial Rate Increase (Employee + Employer)				
County		1.9%	1.7%	3.1%
Novato		1.5%	1.1%	1.5%
San Rafael		1.4%	0.8%	2.3%

Preliminary analysis is based on the same data, methods, and assumptions used in Cheiron's June 30, 2019 Actuarial Valuation Report, except where noted.

Preliminary Sensitivity Analysis



Contribution Impact of Recommended Assumption Changes (Year 3)

Scenario	Baseline	Recommended	I	II
Discount Rate	7.00%	6.75%	6.75%	6.50%
Price Inflation	2.75%	2.50%	2.50%	2.25%
Real Return	4.25%	4.25%	4.25%	4.25%
Wage Inflation	3.00%	3.00%	3.00%	2.75%
Payroll/Amortization Growth	3.00%	2.75%	3.00%	2.50%
Total Normal Cost Rate Increase (Employee + Employer)				
County		1.3%	1.3%	2.0%
Novato		1.2%	1.2%	1.3%
San Rafael		1.1%	1.1%	1.7%
Ultimate UAL Amortization Rate Increase (after 3-Year Phase-In)				
County		1.8%	1.5%	3.2%
Novato		0.9%	0.4%	0.3%
San Rafael		0.9%	0.2%	1.4%
Total Ultimate Rate Increase (Employee + Employer)				
County		3.1%	2.8%	5.2%
Novato		2.1%	1.6%	1.6%
San Rafael		2.0%	1.3%	3.1%

Preliminary analysis is based on the same data, methods, and assumptions used in Cheiron's June 30, 2019 Actuarial Valuation Report, except where noted.

Preliminary Sensitivity Analysis



Funded Ratio Impact of Recommended Assumption Changes

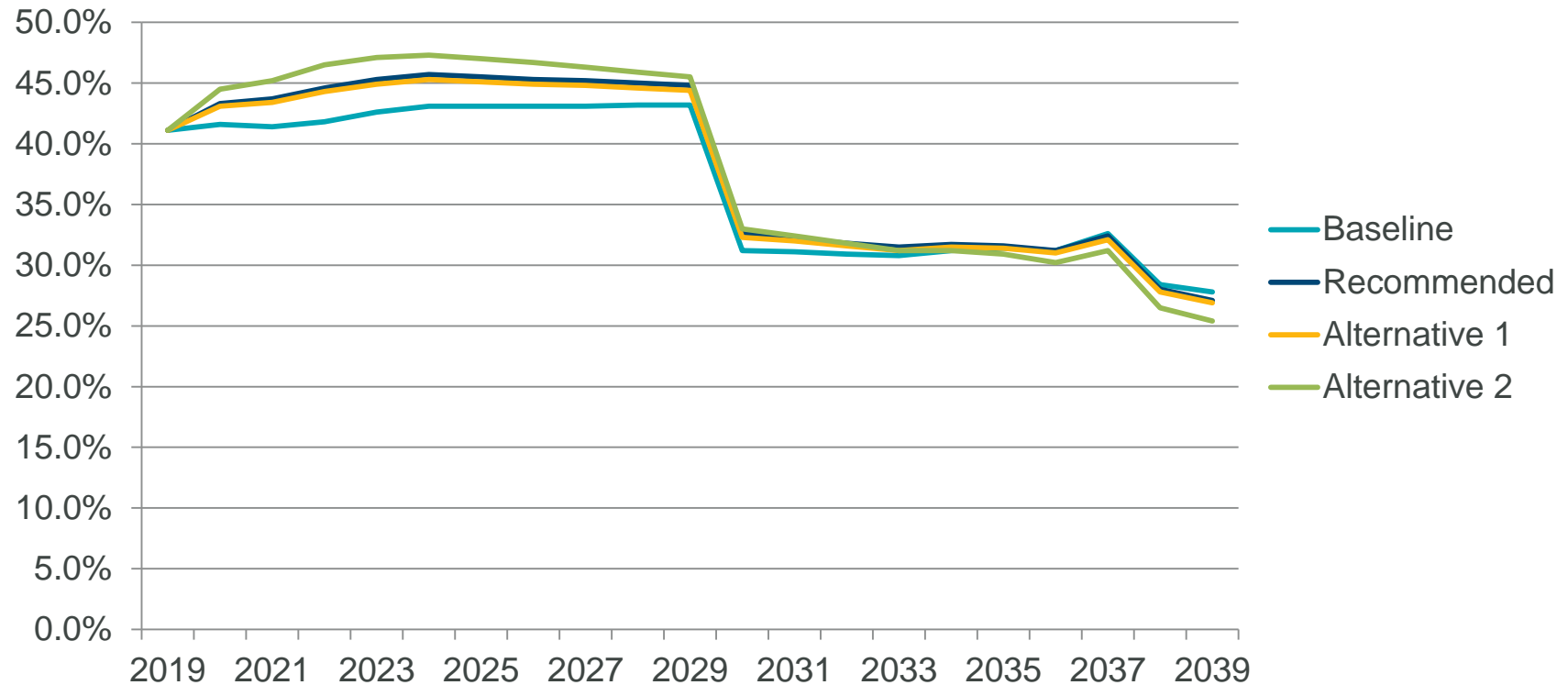
Scenario	Baseline	Recommended	I	II
Discount Rate	7.00%	6.75%	6.75%	6.50%
Price Inflation	2.75%	2.50%	2.50%	2.25%
Real Return	4.25%	4.25%	4.25%	4.25%
Wage Inflation	3.00%	3.00%	3.00%	2.75%
Payroll/Amortization Growth	3.00%	2.75%	3.00%	2.50%
Market Value Funded Ratio (Projected to 6/30/2020)				
Total MCERA	84.3%	82.7%	82.7%	81.6%
County	86.5%	84.5%	84.5%	83.0%
Novato	85.5%	84.9%	84.9%	85.2%
San Rafael	75.8%	75.3%	75.3%	75.0%
Total MCERA		(1.6%)	(1.6%)	(2.7%)
County		(2.0%)	(2.0%)	(3.5%)
Novato		(0.6%)	(0.6%)	(0.3%)
San Rafael		(0.6%)	(0.6%)	(0.8%)

Preliminary analysis is based on the same data, methods, and assumptions used in Cheiron's June 30, 2019 Actuarial Valuation Report, except where noted.

Preliminary Sensitivity Analysis



Total MCERA Contribution Rates (Employee + Employer)



Projections assume discount rate changed as of 7/1/2020, 3.26% return for FY 2019-20, and 6.75% asset returns for other years.

Next Steps



- Continue with Experience Study
 - Receive feedback from Board on economic assumptions
 - Proceed with demographic assumption analysis, including member data through 6/30/2020
- Adopt economic assumptions
- Present preliminary Actuarial Valuation results, including demographic assumptions and Experience Study (Dec 2020)
- Adopt June 30, 2020 Actuarial Valuation and FYE 2022 Contribution Rates (Early 2021)

Required Disclosures



The purpose of this presentation is to present the information on the economic assumptions for the Marin County Employees' Retirement Association. This presentation is for the use of the Marin County Employees' Retirement Board in accordance with applicable law.

In preparing our presentation, we relied on information (some oral and some written) supplied by the Marin County Employees' Retirement Association. This information includes, but is not limited to, the asset allocation and financial information. Unless otherwise described, the actuarial assumptions, data, and methods are those that were used in the preparation of the actuarial valuation report as of June 30, 2019.

We hereby certify that, to the best of my knowledge, this presentation and its contents have been prepared in accordance with generally recognized and accepted actuarial principles and practices that are consistent with the Code of Professional Conduct and applicable Actuarial Standards of Practice set out by the Actuarial Standards Board. Furthermore, as credentialed actuaries we meet the Qualification Standards of the American Academy of Actuaries to render the opinion contained in this presentation. This presentation does not address any contractual or legal issues. We are not attorneys, and our firm does not provide any legal services or advice.

This presentation was prepared exclusively for the Marin County Employees' Retirement Board for the purpose described herein. This presentation is not intended to benefit any third party, and Cheiron assumes no duty or liability to any such party.

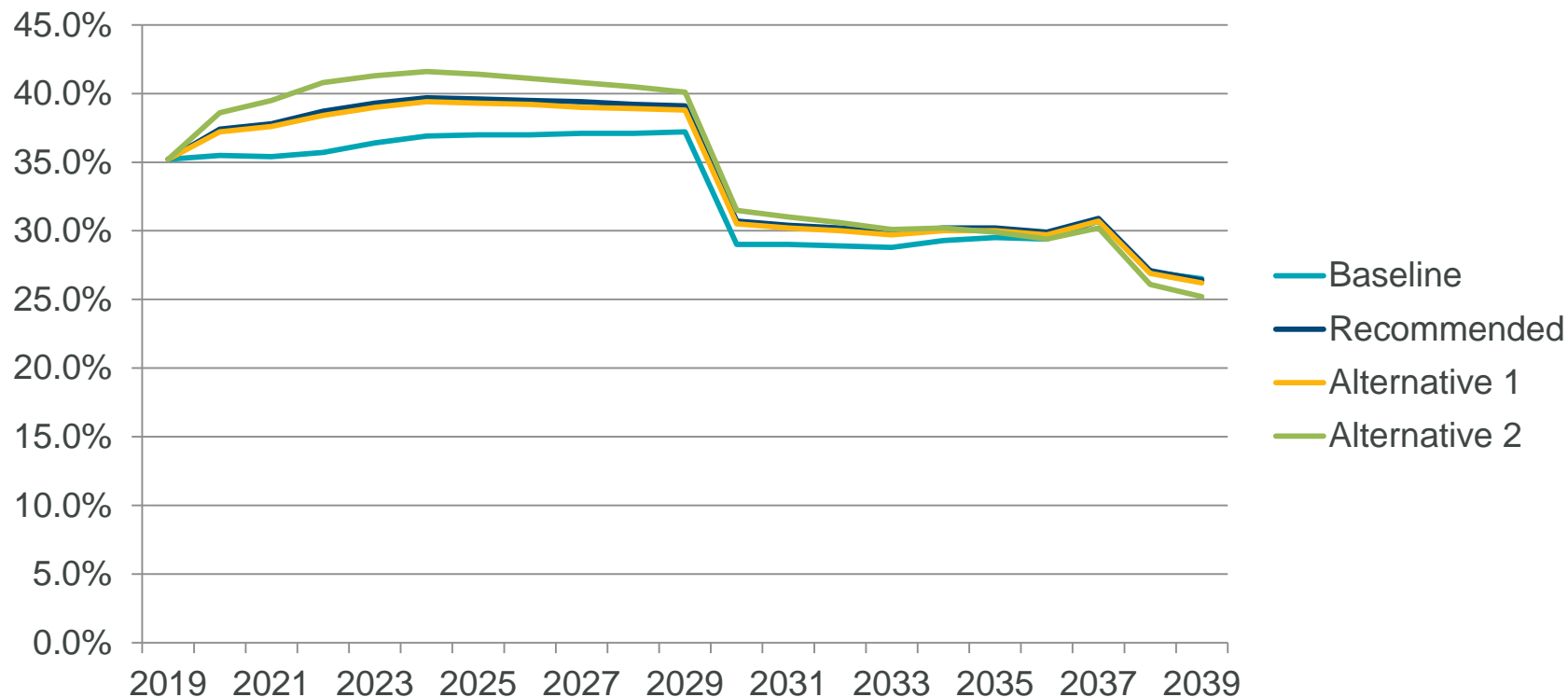
Graham A. Schmidt, ASA, EA, FCA, MAAA
Consulting Actuary

William R. Hallmark, ASA, EA, FCA, MAAA
Consulting Actuary

Appendix – Additional Preliminary Sensitivity Analysis



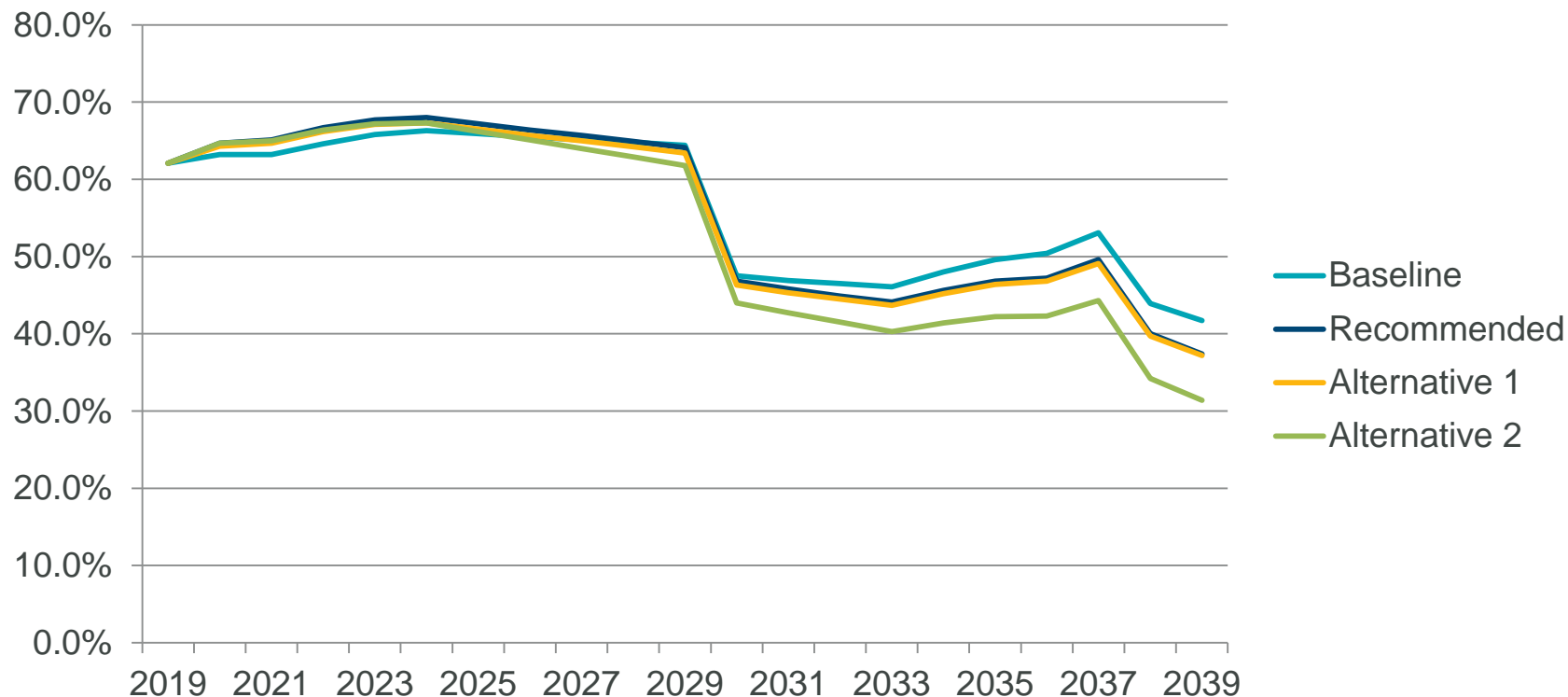
Total Contribution Rates – County



Projections assume discount rate changed as of 7/1/2020, 3.26% return for FY 2019-20, and 6.75% asset returns for other years.



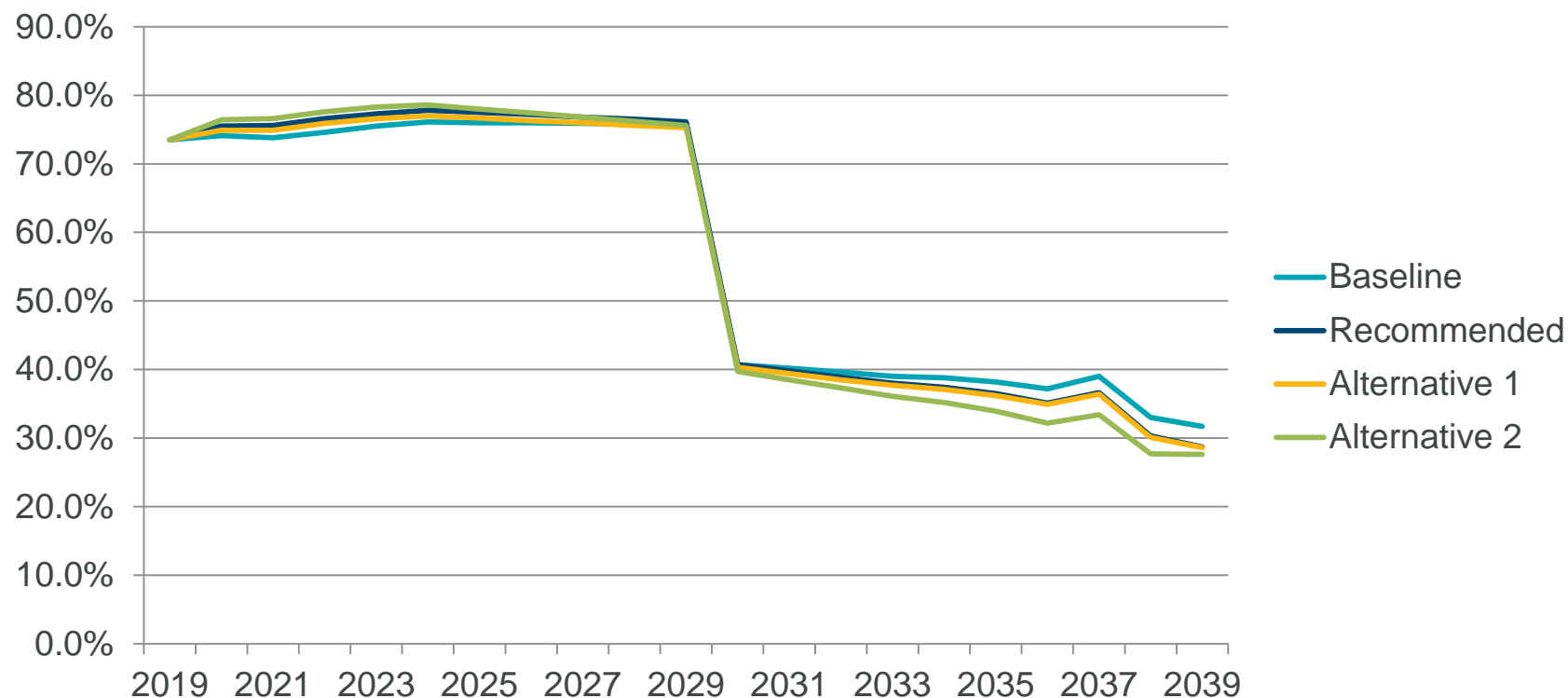
Total Contribution Rates – Novato



Projections assume discount rate changed as of 7/1/2020, 3.26% return for FY 2019-20, and 6.75% asset returns for other years.



Total Contribution Rates – San Rafael



Projections assume discount rate changed as of 7/1/2020, 3.26% return for FY 2019-20, and 6.75% asset returns for other years.



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October 26, 2020

To: Members of the Board of Retirement
Marin County Employees' Retirement Association (MCERA)

From: Jeff Wickman *JW*
Retirement Administrator

Subject: Engagement with Varde Dislocation Fund for Opportunistic Investments

Background

On September 17, 2020 the MCERA Investment Committee selected CarVal, Fortress and Varde to manage MCERA's new opportunistic investment allocation. Because each manager had an impending fund closing date, staff and counsel at Nossaman immediately went about the review of fund documents, completing the required subscription agreements and most importantly negotiating side letters. The first fund to close was the Varde Dislocation Fund on October 16, 2020. As a result, initial efforts focused on the review and completion of documents necessary for MCERA to become a limited partner in the Varde Dislocation Fund. All documents were completed on October 15th. On the same day, MCERA received a capital call from the Varde Dislocation Fund for \$5,025,000. Payment of the capital call is due on October 28, 2020.

Issue

MCERA's side letter requires Varde to acknowledge that they had received and reviewed our Placement Agent and Conflict of Interest Code policy. The side letter also states that Varde will comply with MCERA's ethical requirements, which pertain both to California gift rules and Form 700 filing obligations. MCERA's Conflict of Interest Code defines investment managers as "designated filers" of the Statement of Economic Interest (Form 700). All MCERA's investment managers annually file the Form 700. New investment managers are required to file within 30 days of the start of work with MCERA.

After all agreements were in place, Varde expressed their view that they are not subject to the Government Code that requires filing Form 700 because they are not an "investment manager" or "investment consultant" as defined under the MCERA's Conflict of Interest Code. They also stated that they have not been required to file Form 700 by other California public retirement systems who are investors in Varde's various funds. To date, Varde has not submitted the required filing and has notified MCERA that they are continuing to evaluate the filing requirements with an attempt to find a path forward.

The questions of potential non-compliance with the Board's Conflict of Interest Code is being brought back to the Board for discussion and potential action. A confidential memo from counsel has been provided to the Board with legal analysis of this issue.

Callan

October 27, 2020



Derivatives and Their Use in MCERA's Portfolio

Jim Callahan, CFA
Fund Sponsor Consulting

David Zee, CFA
Global Manager Research

Defining Derivatives

Synthetic financial contracts deriving their value from underlying instruments

Derivatives are a capital efficient tool that can be used in a number of ways to reduce risk and / or generate returns

What is a derivative?

- **An instrument that derives its value from an underlying security**
 - The most common types of derivatives include: futures, forwards, swaps and options
 - The most common underlying assets include: stocks, bonds, commodities, currencies, interest rates and indexes

Why use them?

- **Provide greater efficiency and flexibility in structuring portfolios**
 - Risk management (hedging) with capital efficiency
 - Market efficiency (greater liquidity and lower transaction costs)
 - Diversification (broadens opportunity set)
 - Arbitrage (capture market mispricings)

What do I need to consider?

- **Proper monitoring and portfolio management**
 - Collateral management
 - Counterparty risk

Source: GSAM

Futures vs. Swaps vs. Options

	Futures	Centrally Cleared Swaps	Over-the-Counter (OTC) Swaps	Options
Contract Terms	Standardized	Standardized	Customizable	Standardized
Counterparty Risk	No	No	Yes	No
Financing Cost	Implicit	Explicit	Explicit	Implicit
Underlying	Physical security	Reference rate	Reference rate	Physical security or reference rate
Collateral/Margin	Daily exchange of cash	Daily exchange of cash	Collateralized gain/loss	Collateralized gain/loss

Derivatives Information Summary

Basic Types of Financial Instruments

Instrument Type	Usage	Description	Considerations	Market Size / Daily Volume	Market Structure/ Exchange	MCERA's Manager Exposure(s)
Equity Index Futures (Exchange traded standardized agreement)	Efficiently achieve stock market beta exposure	Obligation to buy or deliver a basket of common stocks, at a certain date in the future	-Cost of quarterly calendar roll which can vary considerably -Basis risk against basket of cash securities	-Market Size: Open Interest = Varies by Index -Daily traded volume (5d) -Margin requirements: 5-10% of notional exposure	Executed on Chicago Mercantile Exchange (CME) for U.S. markets, or local country's clearing house	-State Street - S&P500 -BlackRock REITs -Invesco Commodity -Parametric Overlay
Interest Rate Futures (Exchange traded standardized agreement)	-Efficiently add duration exposure -Smooth out interest rate risk variances across the rate curve	Obligation to buy or sell a treasury bond, at a certain date in the future (settlement date) and at a specified price (futures price)	-Cost of quarterly roll which can vary considerably -Limited number of key rate duration points -Basis risk against liability	-Market Size: Open Interest = 3.5mm contracts (TY) -Daily traded Volume: ~2mm contracts (TY) -Margin Requirements: 4-8% of original notional	Executed on Chicago Mercantile Exchange (CME)	-Wellington -Western Assest
Interest Rate Swaps (Can be exchange traded or customized agreement)	-Efficiently add duration exposure -Smooth out interest rate risk variances across the rate curve	Counterparties exchange a stream of fixed/floating cash flows (legs), on quarterly dates (settlement dates) over a certain time period (term)	-Negative swap spreads -Basis risk against liability	-Market Size: \$155tn -Daily traded Volume: \$2.5tn -Margin Requirements: 5-10% of original notional	CME and LCH clearing house	-Wellington – IRS -Western Asset – CDX -MSIM – OTC FX
Options (Exchange traded standardized agreement)	-Income -Hedging -Substitute for physical security	Option buyer has the right but not the obligation to buy or sell an asset at a set strike price over a certain period.	-Cost varies on implied underlying security volatility, time to expiration, strike price, risk free rate -Assignment can occur anytime during contract life	Depends on underlying security, time to expiration, and strike price	Major exchanges e.g. NYSE, NASDAQ, CME, CBOT, Options Clearing Corp	

Source: Callan, GSAM

Equity Futures Contract Specifications

Characteristics	S&P500 E-mini	Russell 2000 E-mini	S&P/ TSX-60	MSCI EAFE	MSCI EM
Region/Market Cap	US/ Large Cap	US/ Small Cap	Canada/ Large Cap	Developed International/ Large Cap	Emerging Markets/ Large Cap
Underlying Index	S&P500	Russell 2000	S&P/TSX-60	MSCI EAFE (\$)	MSCI EM (\$)
Contract Size	50 \$ x index	50 \$ x index	200 C\$ x index	50 \$ x index	50 \$ x index
Value of 1.0 point	\$50	\$50	C\$200	\$50	\$50
Expiration Months	Mar/Jun/ Sep/Dec	Mar/Jun/ Sep/Dec	Mar/Jun/ Sep/Dec	Mar/Jun/ Sep/Dec	Mar/Jun/ Sep/Dec
Initial Margin (Hedger)	\$12,000	\$6,500	C\$15,107	\$7,920	\$4,770
Initial Margin (Speculator)	\$13,200	\$7,150	C\$15,307	\$8,712	\$5,247
Exchange	Chicago Mercantile Exchange (CME)	Chicago Mercantile Exchange (CME)	Montreal Stock Exchange (MSE)	NYF-ICE Futures	NYF-ICE Futures
Contract Value	\$173,575	\$80,935	C\$195,640	\$94,495	\$56,240
Current Ticker	ESZ0	RTYZ0	PTZ0	MFSZ0	MESZ0
Current Open Interest	2,427,007	536,788	302,548	419,381	1,244,022
Current Volume	1,539,718	164,696	15,500	17,818	63,769

Source: Bloomberg, 10/14/2020

US Treasury Futures Contract Specifications

Treasury Note (T-Note) Futures Contract	
Settlement	Physical
Maturity	2-year, 5-year, 10-year, 10-year ultra
Duration	Approximately 2 years (2-year); 4 years (5-year); 6 years (10-year), 9 years (ultra)
Notional Value	\$100,000 for 5- and 10-year ; \$200,000 for 2-year
Price Quote (2-yr)	Are quoted as 100 and 1/128ths
Convention (2-yr)	Each change of \$0.01 in the contract price is worth \$20
Price Quote (5-, 10-yr):	Are quoted as 100 and 1/64ths
Convention (5-, 10-yr)	Each change of \$0.01 in the contract price is worth \$10
Exchange	Chicago Board of Trade (CBOT)

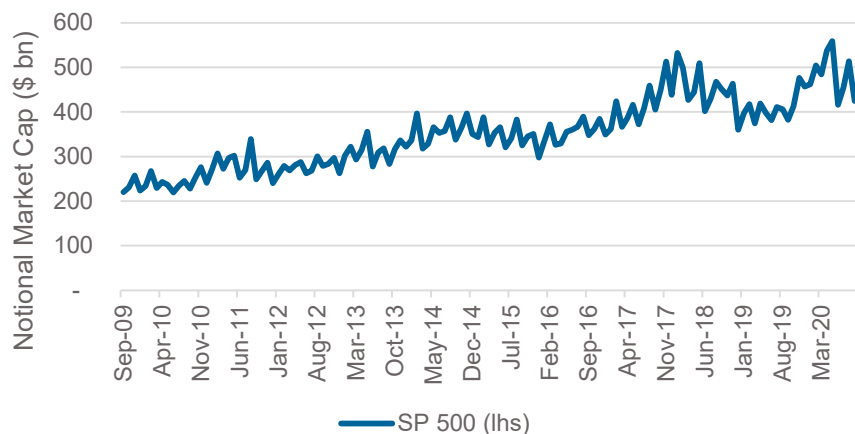
Treasury Bond (T-Bond) Futures Contract	
Settlement	Physical
Maturity	30-year, 30-year ultra
Duration	Approximately 12 years (15-year); 19 years (ultra)
Notional Value	\$100,000
Price Quote	Are quoted as 100 and 1/32nds
Convention	Each change of \$0.01 in the contract price is worth \$10
Exchange	Chicago Board of Trade (CBOT)

Source: GSAM

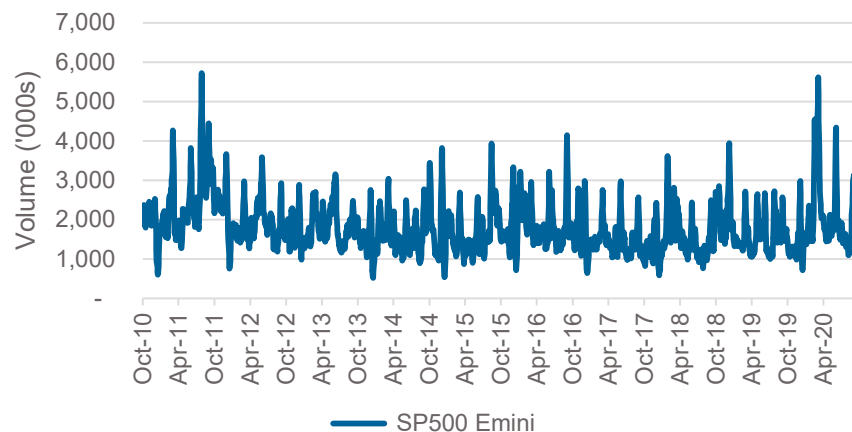
Equity Futures – S&P500 Index

S&P500 futures has ~\$425bn notional exposure outstanding with 5-day trading volume of \$3.7bn

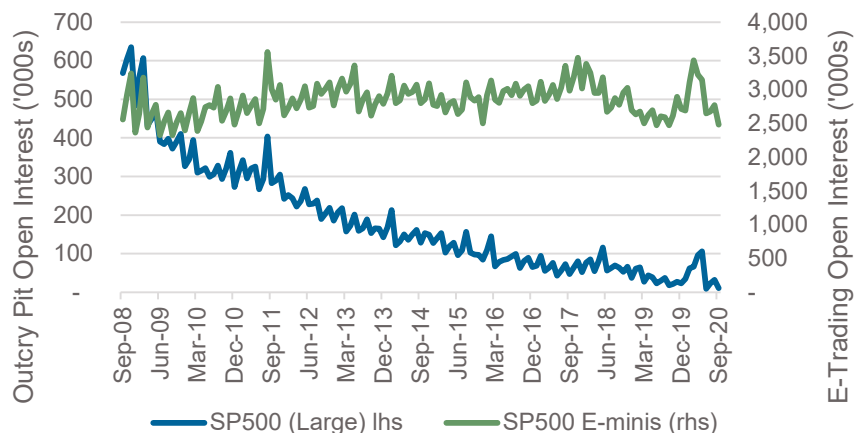
Notional Size of Equity Futures Markets



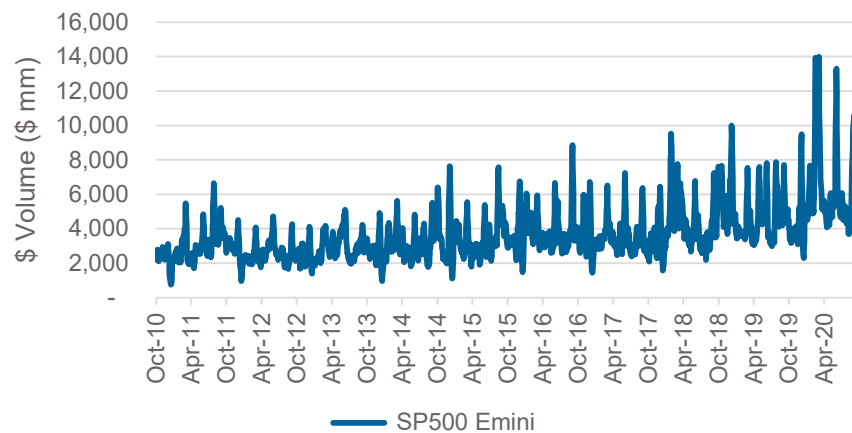
Contracts Traded Volume (5D Avg)



Futures Contracts - Open Interest



Contracts \$ Traded Volume (5D Avg)

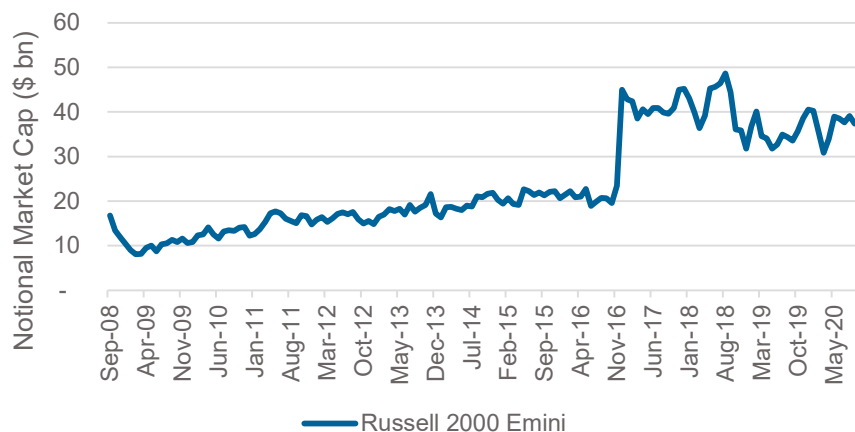


Source: Callan, Bloomberg, 10/2010-10/2020

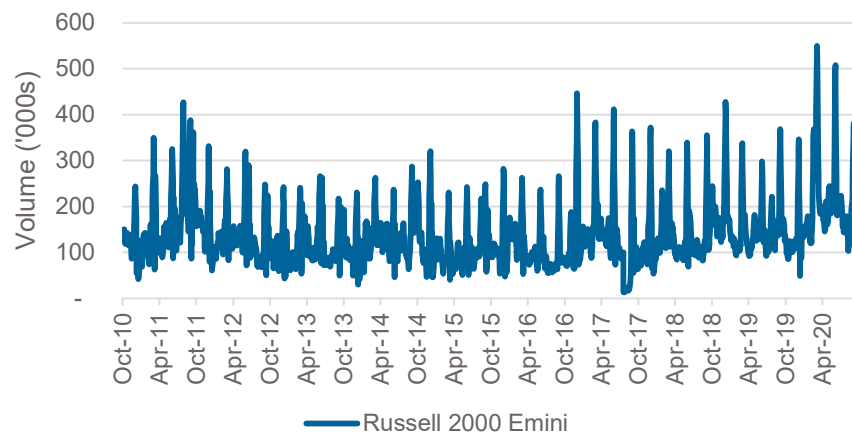
Equity Futures – Russell 2000 Index

Small cap futures: ~\$37bn of notional exposure outstanding with 5-day trading volume of \$165mm

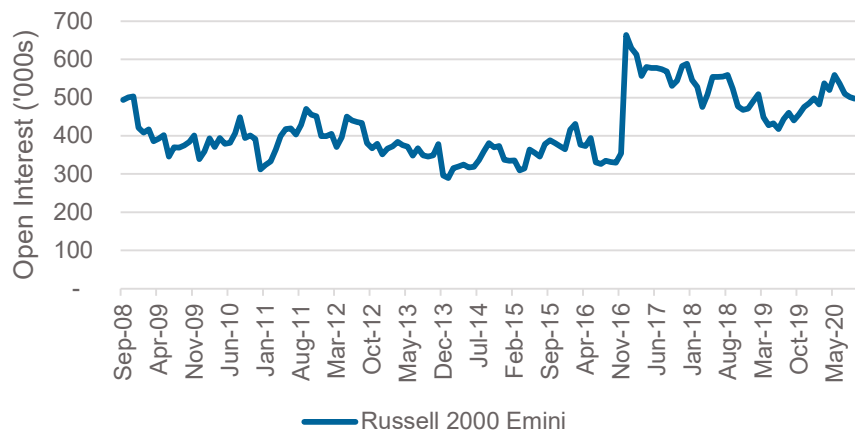
Notional Size of Equity Futures Market



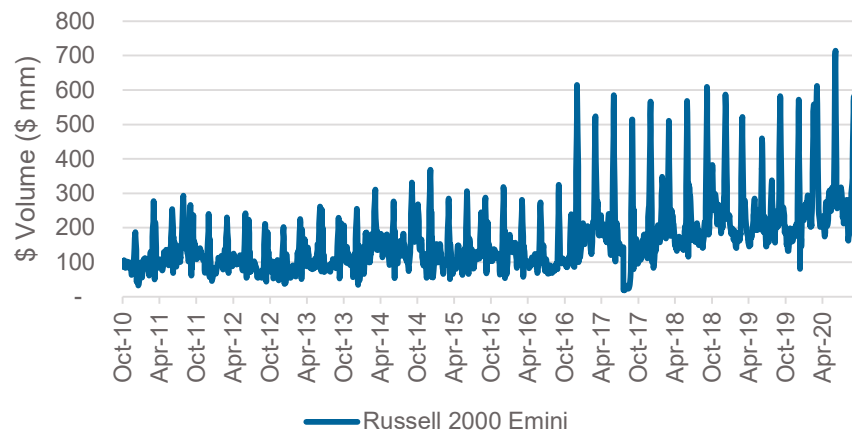
Contracts Traded Volume (5D Avg)



Futures Contracts - Open Interest



Contracts \$ Traded Volume (5D Avg)

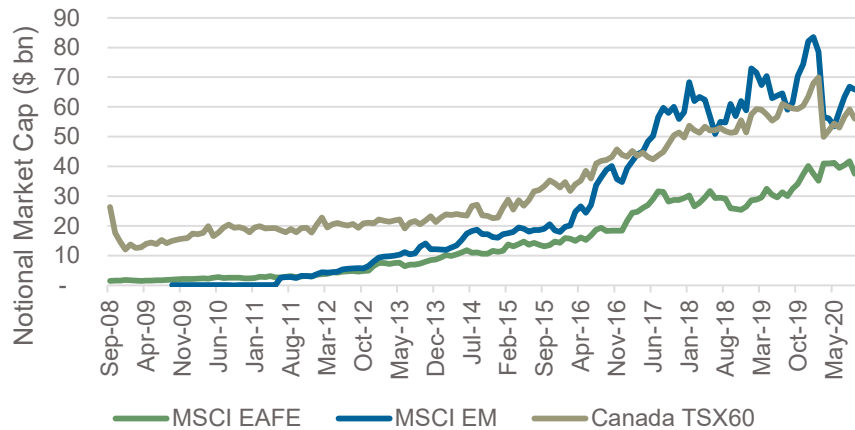


Source: Callan, Bloomberg, 10/2010-10/2020

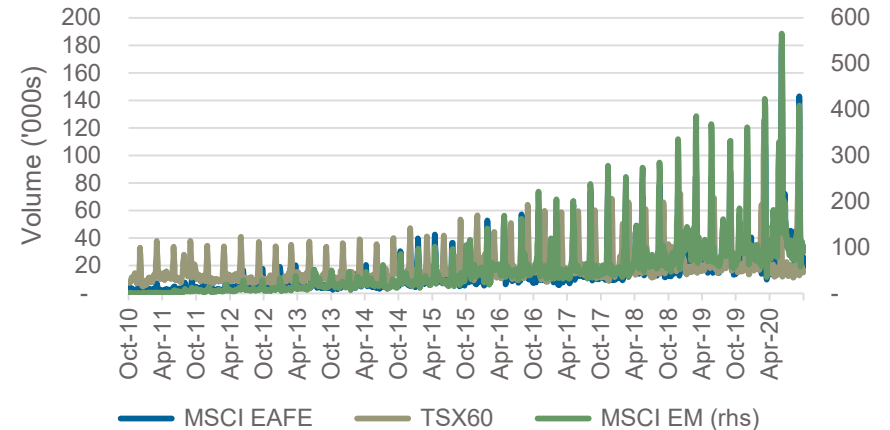
Equity Futures - Global Equity Indexes

Depth of global equity futures and trading activities have increased in recent years

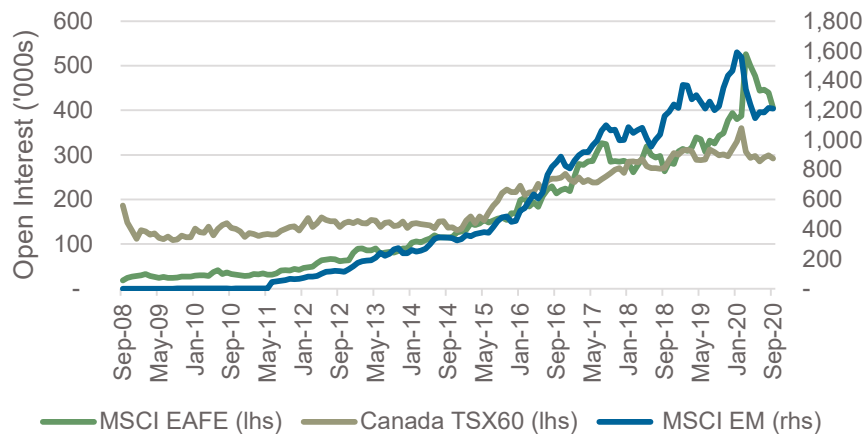
Notional Size of Equity Futures Markets



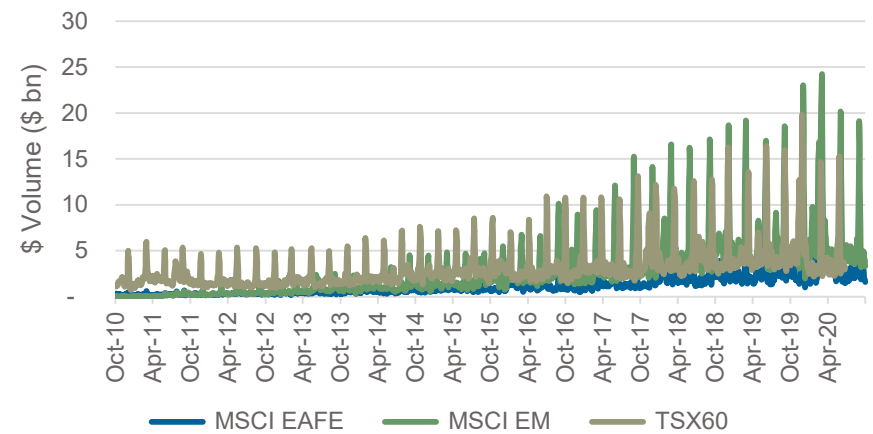
Contracts Traded Volume (5D Avg)



Futures Contracts - Open Interest



Contracts \$ Traded Volume (5D Avg)

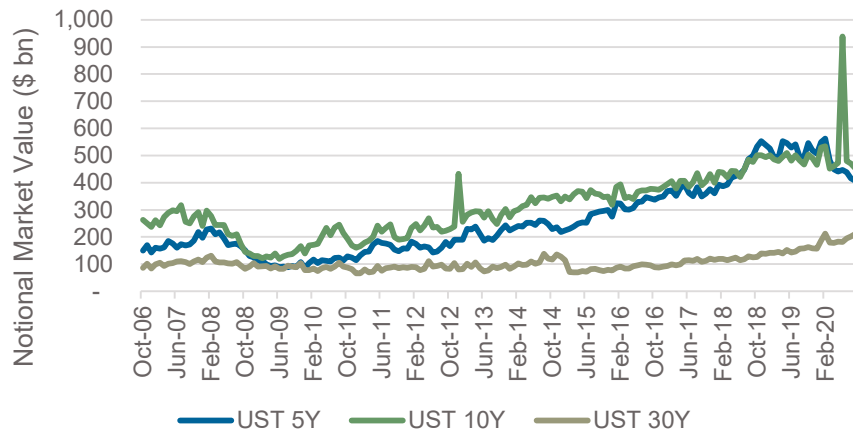


Source: Callan, Bloomberg, 10/2010-10/2020

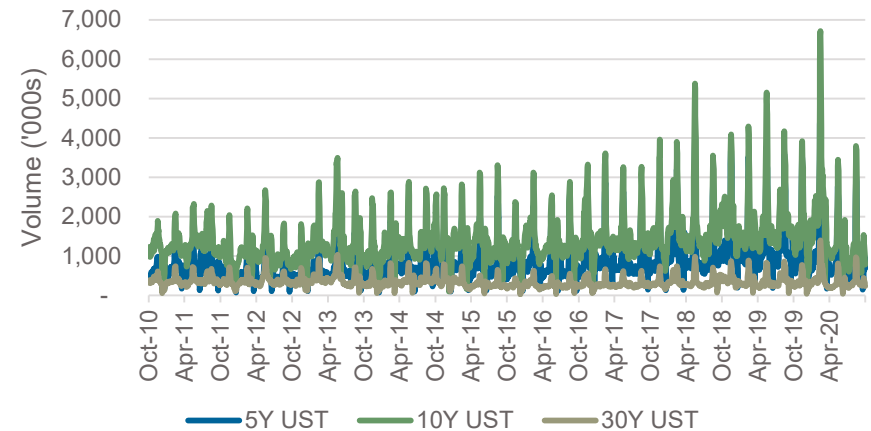
Fixed Income Futures – U.S. Treasuries

Treasury futures is one of the most liquid market – KR10-year trading nearly \$1tn during peak of Mar 2020

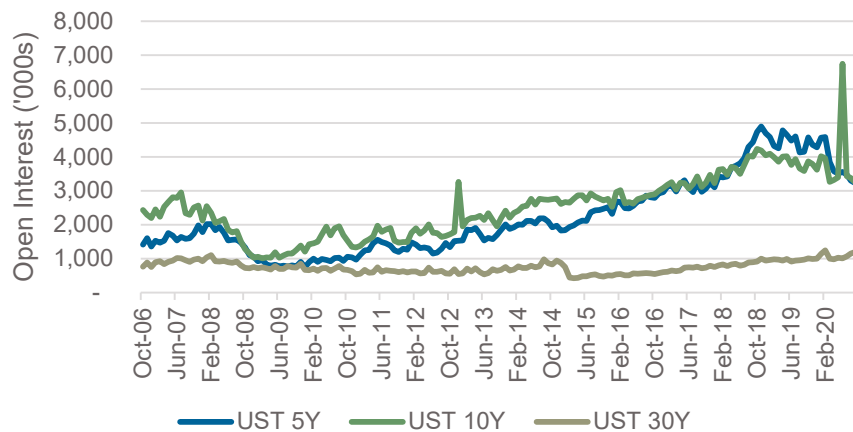
Notional Size of US Treasury Futures Market



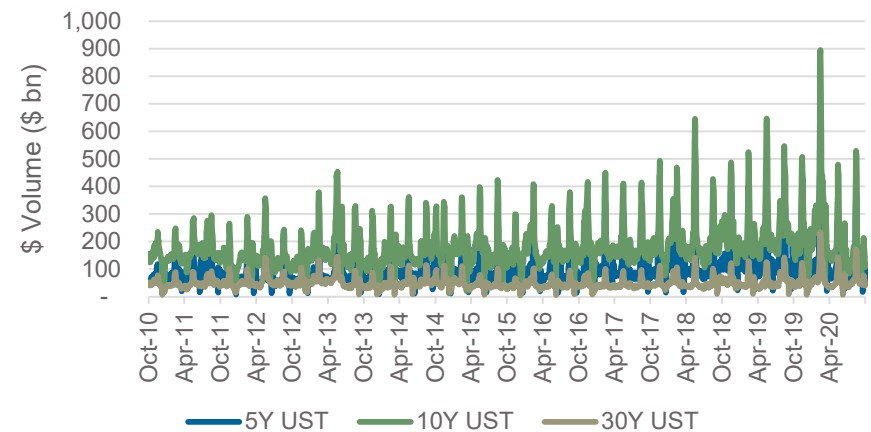
Contracts Traded Volume (5D Avg)



Futures Contracts - Open Interest



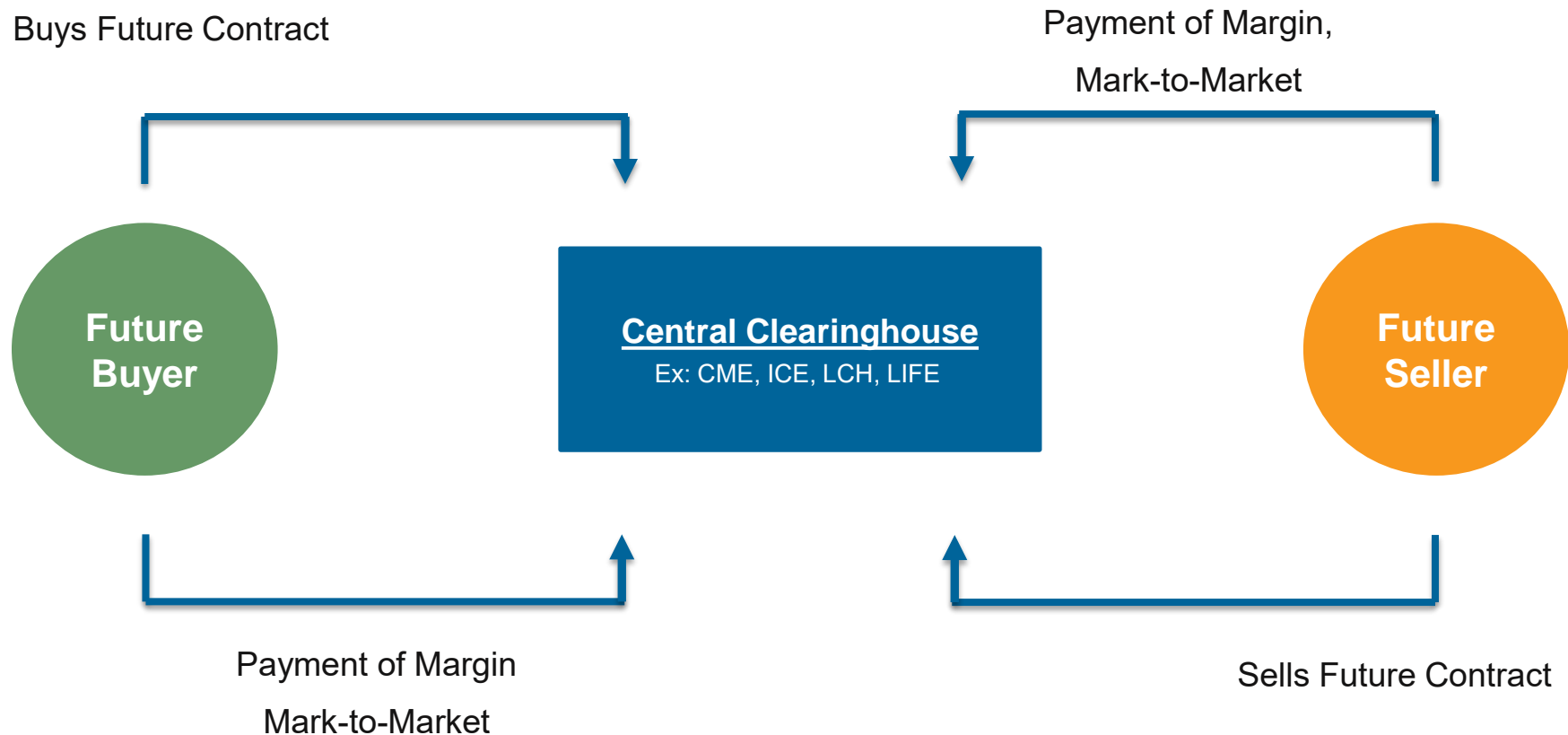
Contracts \$ Traded Volume (5D Avg)



Source: Callan, Bloomberg, 10/2010-10/2020

Schematic for Derivatives Trading

Basic flow of a futures transaction between the buyer, seller, and clearinghouse:



Source: GSAM, PIMCO, Western Assets

How Is Margin Utilized in Derivatives Contracts?

Another important characteristic of derivatives contracts is **margin**

- In the **derivatives markets**, margin is an **obligation guarantee or collateral**
 - It is money deposited by both the long and short position parties
 - The clearing house sets the initial and maintenance margin requirements
 - **Initial margin**: the amount of cash that must be deposited at the time the contract is entered into (typically 1-10% of notional)
 - **Maintenance margin**: the minimum amount of margin that must always be in the futures account during the life of the contract
 - The derivatives exchange requires traders to post margin and to mark-to-market (i.e., settle) their accounts daily
 - **Marking-to-market** is the process of adjusting the margin balance due to the change in the value of the underlying assets from the previous trading day

Calculating Derivatives Overlay as Percentage of Cash

Assessment Date	9/30/2020	10/1/2020	10/2/2020	10/5/2020 (Hypo)
Asset Class	Domestic Small Cap			
Overlay Target (Cash)	\$21,216,115	\$19,383,115	\$19,383,115	\$19,383,115
Initial Margin held at broker	\$0	\$1,833,000	\$2,157,300	\$2,250,360
Total Cash	\$21,216,115	\$21,216,115	\$21,540,415	\$21,633,475
Overlay Equity Futures	RTYZ0			
Futures Price	1,504.40	1,527.40	1,534.00	1,500.00
Futures Multiple	50			
Initial Margin Requirement	\$6,500/contract			
Number of Contracts	Buy 282	Held 282	Held 282	Held 282
Mark-to-Market	\$0	\$324,300	\$93,060	-\$479,400
Notional Principal	\$21,212,040	\$21,536,340	\$21,629,400	\$21,150,000
% Equitized	99.98%	99.98%	99.98%	99.98%

Calculate contracts to purchase: Calculate mark-to-market

$$\begin{aligned} & \$21,216,115 / (1504.40 \times 50) \\ & = 282.05 \end{aligned}$$

$$\begin{aligned} & 282 \times 50 \times \\ & (1527.40 - 1504.40) \end{aligned}$$

Initial margin required: \$1,833,000 or
~8% of notional

= \$324,300 credited to
broker's margin account

Examples of Notional Exposures for Treasury Futures

- Number of Treasury futures contracts is calculated from Dollar Value of 1 Basis Point (DV01) – change in dollars from one basis point change in yield
- Unlike equity futures, notional exposure as a percentage of portfolio market value is immaterial in assessing portfolio leverage
- Treasury futures are often expressed in duration terms (years) when assessing portfolio duration

Example: Hedging portfolio duration relative to benchmark duration – 15.3% notional exposure was used to reduce duration by 1 year

	Position (\$ mm)	Port %	Portfolio Duration (yrs)	Benchmark Duration (yrs)	Diff (yrs)	Port DV01 (per \$1mm)	Aggregate DV01	Futures DV01	Hedge Ratio Dur Adj	Hedge Ratio # Contracts	Futures Contract	Contract Value	Notional Principal	% of Cash MV
1-3 Yrs	48	24.0%	2.16	1.92	0.24	\$218.80	\$10,502	\$36.93	(0.111)	(32)	2y	\$220,843	(\$7,066,976)	(3.5%)
3-5 Yrs	38	19.0%	4.51	3.85	0.66	\$457.10	\$17,370	\$51.04	(0.146)	(50)	5y	\$125,742	(\$6,287,100)	(3.1%)
5-7 Yrs	26	13.0%	6.37	5.66	0.71	\$652.60	\$16,968	\$86.13	(0.111)	(22)	10y	\$138,859	(\$3,054,898)	(1.5%)
7-10 Yrs	28	14.0%	8.45	7.91	0.54	\$916.30	\$25,656	\$144.03	(0.064)	(11)	Ultra 10y	\$158,656	(\$1,745,216)	(0.9%)
10+ Yrs	60	30.0%	18.24	16.24	2.00	\$2,222.00	\$133,320	\$207.19	(0.110)	(71)	30y	\$174,375	(\$12,380,625)	(6.2%)
	200	100.0%	8.86	7.81	1.05		\$203,816						(\$30,534,815)	(15.3%)

Example: Active yield curve trade to express steepening bias – perceived high notional exposure can be misleading

2-10 YC Trade	Contract Ticker	Port %	Contribution to Duration	Futures CTD Duration	Futures DV01	Hedge Ratio Contracts	Contract Value	Notional Principal	Scenario 1 Spread Chg (bps)	Scenario 1 Profit/Loss	Scenario 2 Spread Chg (bps)	Scenario 2 Profit/Loss	P/L as %MV	P/L as %Notional
2Y KR	TUA	33.6%	0.50	1.88	\$36.93	304	\$220,843	\$67,136,272	(100)	\$(1,122,672)	(20)	(\$224,534)	(0.11%)	(0.33%)
10Y KR	UXYA	(5.4%)	(0.50)	9.244	\$144.03	(78)	\$138,859	\$(10,831,002)	(100)	\$1,123,434	(100)	\$1,123,434	0.56%	(10.37%)
										\$762		\$898,900	0.45%	
DV01 Hedge Ratio		0.26												
Portfolio \$MV		\$ 200,000,000												

Source: CME, Bloomberg

MCERA's Derivatives Exposure by Manager

Portfolio	Calendar Years	Percent of Portfolio Market Value	Type	Reasons Used (sourced from managers)
SSGA S&P 500 Index Portfolio	2017	1.0%	S&P 500 Futures	Equitize cash
	2018	0.8%	S&P 500 Futures	
	2019	0.5%	S&P 500 Futures	
MSIM International Equity	2017	-5.3%	Currency forwards (Yen/USD hedge)	Hedge currency exposure primarily for defensive purposes (not as a means to add value).
	2018	-2.1%	Currency forwards (Yen/USD hedge)	
	2019	0.0%	-	
Artisan International Growth	2017	2.8%	Participation certificates	The fund may invest in equity-linked securities (participation certificates) that provide economic exposure to a security of a non-U.S. company without a direct investment in that security.
	2018	2.0%	Participation certificates	
	2019	2.0%	Participation certificates	
Parametric Emerging Markets	2017	2.4%	Participatory notes	Utilizes derivatives in the form of participatory notes for countries in which the fund structure does not allow for it to get local registration.
	2018	3.6%	Participatory notes	
	2019	4.2%	Participatory notes	
BlackRock REITs	2017	0.2%	Futures	Equitize cash
	2018	0.2%	Futures	
	2019	0.2%	Future	
Wellington Core Plus**	2017	0.2%	Futures*: 0.0%; Swaps: 0.2%	Used for a number of reasons including: to obtain efficient market exposure, make adjustments to portfolio duration, express a view on key interest rate contracts, and express a view on specific credit sector index.
	2018	0.2%	Futures: 0.0%; Swaps: 0.2%	
	2019	0.1%	Futures: 0.0%; Swaps: 0.1%	
Western Asset Intermediate Credit***	2017	-0.2%	Futures*: 0.0%; Swaps: -0.21%	Uses exchange-traded interest rate futures to manage duration and yield curve exposure and centrally cleared CDX contracts (index credit default swaps) as a liquid and efficient way to quickly adjust the credit beta of a portfolio.
	2018	0.0%	Futures: 0.0%; Swaps: 0.03%	
	2019	0.0%	Futures: 0.0%; Swaps: 0%	
Invesco Commodities	2017	100.0%		Derivatives account for the entire market exposure of the strategy. The portfolio is implemented through exchange-traded commodity futures and swaps.
	2018	100.0%		
	2019	100.0%		
Parametric Overlay	2017	100.0%		Derivatives account for the entire market exposure of the cash overlay program. The portfolio is implemented through exchange-traded futures.
	2018	100.0%		
	2019	100.0%		

Public Markets Portfolios that do not use any Derivatives

DFA Small Cap Core Portfolio / TimesSquare International Small Cap / Colchester Global Fixed Income / BlackRock TIPS Index Fund / KBI Global Resources Solutions

Notes

*Futures positions are fully backed by collateral with margin posted each night and therefore carry no market value.

**Wellington's notional market values: 2017: -10.4%, 2018: 1.2%, 2019: 13.5%

***Western Assets' notional market values: 2017: 4.3%, 2018: 41.1%, 2019: 34.8%

Callan

Appendix

Summary of Recent Regulation Changes and Benefits of Clearing

A. Changes in swaps regulation

- In the U.S., the Dodd-Frank Wall Street Reform & Consumer Protection Act (Dodd-Frank) requires that certain swaps be mandatorily cleared via a Central Clearinghouse (CCP).
- Certain interest rate swaps and credit default swap indices are currently subject to mandatory clearing.

B. Investor benefits of clearing

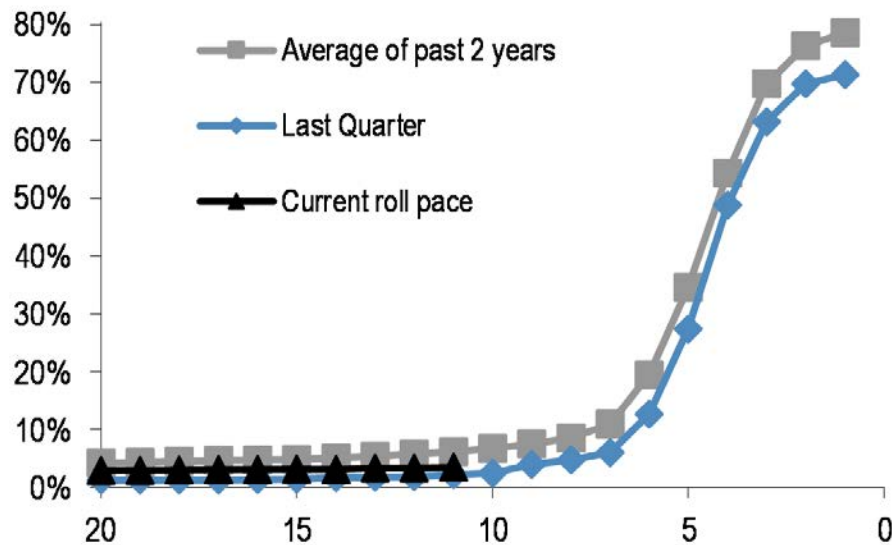
- Portability
 - Provides potential opportunity to move trades to a solvent clearing member in the event of a clearing member insolvency.
- Regulated Margin Requirements and Protection of Margin
 - Regulator approved clearinghouse initial and variation margin models.
 - Baseline initial margin protection requirements.
- Transactions Auto Collapse / Compress
 - Moves from a transaction-based environment to a position based.
 - Avoids potential rejections of assignments and / or avoids fees associated with assignments in bilateral swaps.
- Additional Considerations
 - Incentivizes the standardization of more swap products

Calendar Rolls – U.S. Large Cap

Pace and timing calendar roll are important considerations

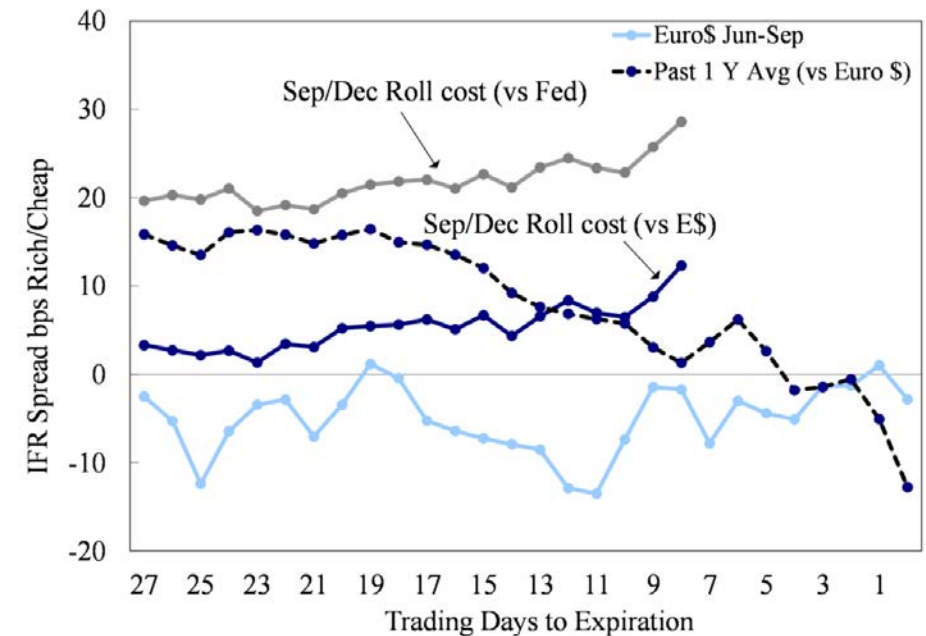
S&P500 E-mini Roll Pace (Sep-Dec 2020)

- Pace of calendar roll dramatically increased in the last five trading days preceding expiry.
- Jun-Sep 2020 pace of roll was slower than the average of trailing 2-years.



S&P500 E-mini Roll Cost (Sep-Dec 2020)

- Contracts rolled earlier in the cycle paid a premium to implied fair value, on avg. over the trailing 1-year.
- Premium declined with fewer days to expiration.



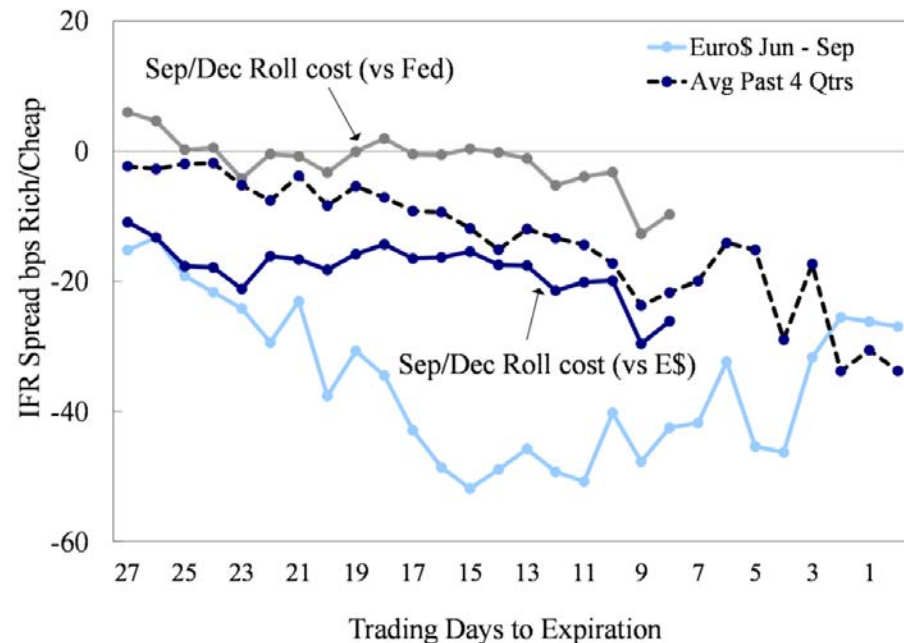
Source: JPM, Bloomberg

Calendar Rolls – U.S. Small Cap

Pace and timing calendar roll are important considerations

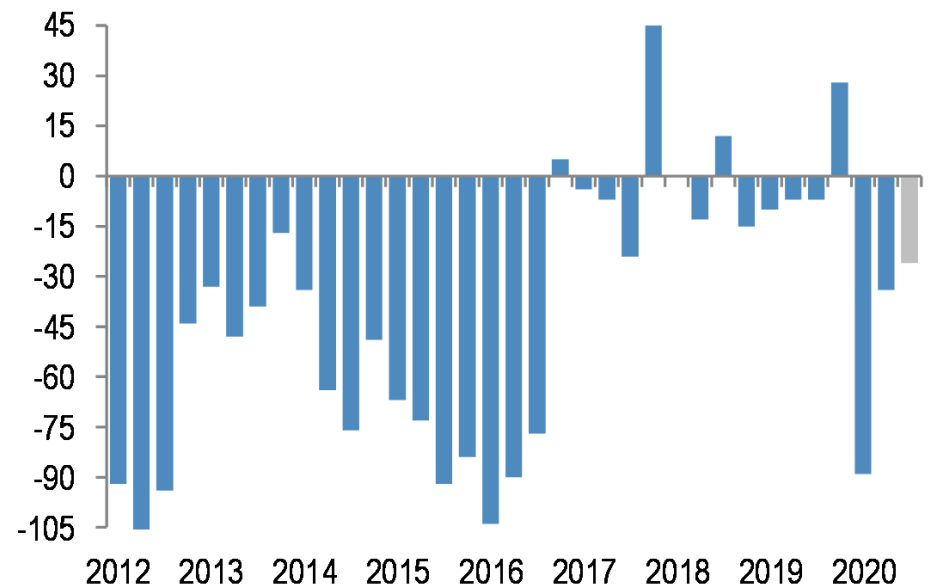
Russell 2000 E-mini Roll Cost (Sep-Dec 2020)

- Similar to U.S. large cap equity future, U.S. small cap futures continue to cheapen relative to implied fair value into expiry.



S&P500 E-mini Roll Cost (Sep-Dec 2020)

- Small cap future offers a historical cheapness bias. This is primarily due to higher borrowing costs associated with lower supply of common stocks for short positions.
- Long futures holders able to earn a risk-free rate should see positive excess return relative to the cash index, over time.



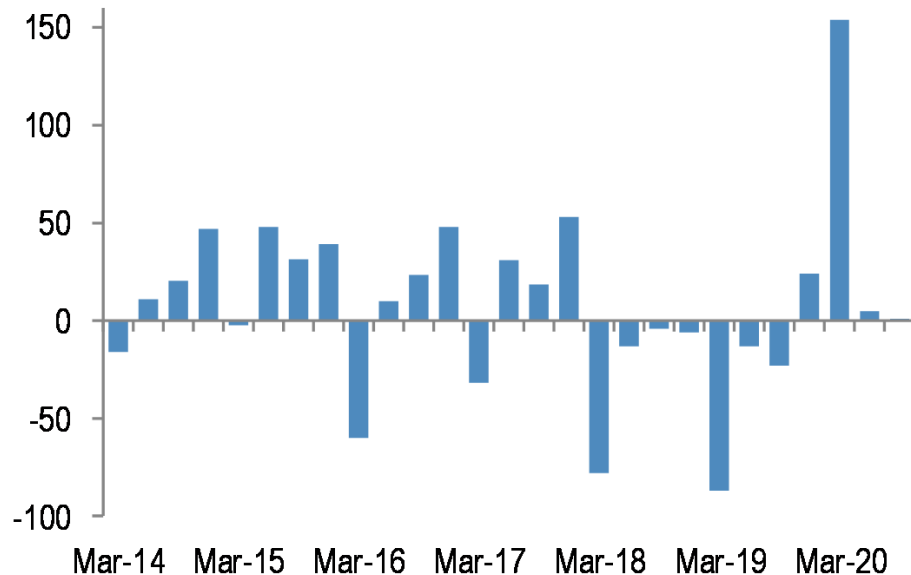
Source: JPM, Bloomberg

Calendar Rolls – MSCI EAFE & MSCI EM

Pace and timing calendar roll are important considerations

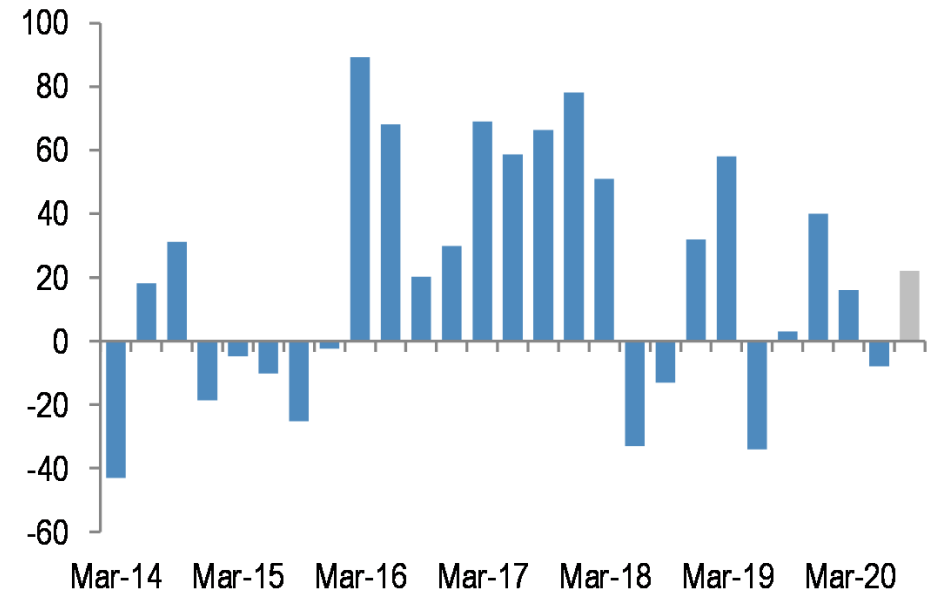
MSCI EAFE Roll Cost (Sep-Dec 2020)

- Roll cost can vary due to low trading volume and momentum from investor flows. Net dealer positions and speculative positions also affect trading richness/cheapness.



MSCI EM Roll Cost (Sep-Dec 2020)

- Open interest, investor flows, and investor flows also affect emerging markets contracts



Source: JPM, Bloomberg

Key Components of Futures Contract

Technically, you do not “buy” or “sell” a futures contract.

You enter into a futures contract as either the long position or the short position.

However, in practice, “buy” and “sell” are often used to describe what position you are taking.

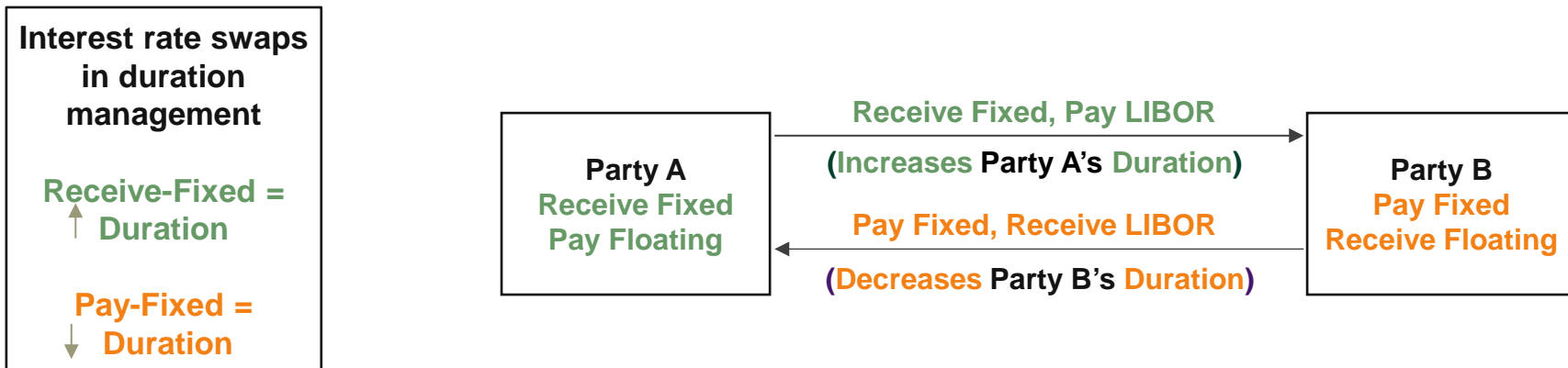
Buy = long

Sell = short

- An interest rate futures contract is a bilateral contract that obligates one party to buy and the other party to sell a specific quantity of interest rate exposure, at a set price (“futures price”), on a specific date in the future (“settlement date”)
- The purchaser of the interest rate futures contract is said to have gone long, or taken a **long position**
 - The long position has the obligation to buy the asset, in this case US Treasuries, at the contract price at contract expiration
 - If the price of the underlying US Treasury appreciates over the life of the contract (i.e. if interest rates decrease), the long futures position will appreciate in value – being long US Treasury Futures effectively increases portfolio duration as the value of the futures contract moves with the value of the underlying US Treasury
- The seller of the futures contract is said to have gone short, or taken a **short position**
 - The short position has the obligation to sell US Treasuries at the contract price at contract expiration
 - If the price of the underlying US Treasury depreciates over the life of the contract (i.e. if interest rates increase), the short futures position will appreciate in value – here being short US Treasury Futures decreases portfolio duration as the holder of a short futures position has entered into a contract whose value moves inversely with the underlying US Treasury security

Key Components of Interest Rate Swap

- An interest rate swap is an agreement to exchange
 - a series of cash flows
 - on periodic settlement dates and
 - over a certain time period
- **“Fixed for floating”**: In an interest rate swap, one party makes fixed-rate interest payments on the notional principal specified in the swap, in return for floating-rate payments from the other party
- The **“receive fixed, pay floating”** leg of a swap is essentially the equivalent of being long a fixed cash flow and short a floating cash flow, or **“long”** a cash bond
 - When you are long a cash bond, you are essentially taking on duration (interest rate exposure)
 - Thus, if you are the **“receiving rates”** party of a swap, you are **increasing duration** exposure
- The **“pay fixed, receive floating”** leg of a swap is essentially the equivalent of being short a fixed cash flow and long a floating cash flow, or **“short”** a cash bond
 - When you are short a cash bond, you are essentially reducing duration
 - Thus, if you are the **“paying rates”** party of a swap, you are **decreasing duration** exposure



Source: GSAM

Key Components of Options

- An option is the right to buy or sell “something” at a certain price for a limited period of time
 - The “something” is the underlying security
 - The price at which the security may be bought or sold is the “strike price”
- A call option gives the owner the right to buy the underlying security
- A put option gives the owner the right to sell the underlying security
- The “holder” and “writer” of an option are different
 - The “holder” has the right to buy or sell at the strike price
 - The “writer” has the obligation to deliver or accept a security at the strike price
- In and out of the money
 - When a call option is in the money, the underlying security price is above the strike price
 - When a call option is out of the money, the underlying security price is below the strike price
 - When a put option is in the money, the underlying security price is below the strike price
 - When a put option is out of the money, the underlying security price is above the strike price
- Factors that influence the price of an option
 - The “price” of the underlying security
 - The strike price
 - Time until expiration
 - Implied volatility of the underlying
 - Current risk-free rate

Source: Western Asset

Marin County Employees Retirement Association

Portfolio Review

October 2020

Speaker Introduction



Jonathan D. Roth – Managing Director, President

Mr. Roth has more than 28 years of private equity investment experience and is responsible for the overall management of the firm. He also works closely with clients to develop and implement private equity investment programs. Mr. Roth reviews investment opportunities, with specific emphasis on the analysis and due diligence for prospective investments, and is engaged in the negotiation of business and legal issues, ongoing monitoring of investments and profit realization from distributed securities. Mr. Roth also serves on several partnership advisory boards. Prior to joining Abbott in 1992, Mr. Roth was an Associate at Elmrock Partners and a Financial Analyst with Amoco Corporation. Prior to obtaining his M.B.A., he worked for Chemical Bank as a corporate lending officer. Mr. Roth received his A.B. in Economics from Cornell University and his M.B.A. from The Fuqua School of Business at Duke University.



Ryan Green – Director

Mr. Green manages and leads Abbott's fundraising and the development of customized private equity solutions. Prior to joining Abbott Capital in 2017, Mr. Green was a Director at LGT Capital Partners, working closely with institutions, consultants, family offices and distribution partners. Mr. Green held a similar role as a member of the institutional sales team at Commonfund and during his tenure at Seasons Capital Management. Before joining Seasons Capital, Mr. Green was a Vice President within the institutional sales desk at DoubleRock. Mr. Green was the co-founder to TrainerLink Inc., a technology start-up and received his B.S. from Rutgers University.

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Abbott Firm Overview

Abbott Capital Management, LLC

1986

Abbott Founded

\$9.5B+

Assets Under
Management¹

\$21B+

Aggregate Commitments
Since Inception

9,000+

Funds in Database

\$950M+

Capital Deployed Annually²

130+

Advisory Board Seats

Heritage

- Pioneer in customized private equity solutions
- High-conviction, performance driven portfolio construction
- Independently owned with a 34+ year track record focused exclusively on private equity
- Offices in New York and London

Team

- Highly integrated and collegiate culture, 50+ professionals dedicated to private equity
- Cycle tested; Managing Directors have an average of 22 years of private equity experience
- Relationship and information advantages across the private equity ecosystem

Private Markets Solutions

Separately Managed Accounts	<ul style="list-style-type: none">▪ Portfolios tailored to meet specific investment goals and objectives▪ Customized reporting and administrative support▪ Access to emerging buyout and venture managers, and other niche strategies
Global, Customizable Commingled Portfolios	<ul style="list-style-type: none">▪ Access to multiple investment strategies, secondaries, and co-investments▪ Simplified administration and reporting
Specialized Strategies	<ul style="list-style-type: none">▪ Secondaries, with a focus on the smaller, less competitive transactions▪ Co-investments sourced through Abbott's GP network
Administrative Support Services	<ul style="list-style-type: none">▪ Customized data management, transaction facilitation, and reporting▪ Fund administration services▪ Distributed stock liquidation management; data analytics and benchmarking services

¹AUM herein is defined as (unfunded commitments + NAV) and includes non-discretionary assets for which Abbott does not provide continuous and regular supervisory or management services but provides ongoing investment monitoring, valuation, and reporting functions; AUM as of 3/31/2020. Approximately \$556M of the AUM represents assets Abbott manages but does not advise. ²Annual average over past 3 calendar years. **Past performance is not a guide to future results and is not indicative of expected realized returns.** See Important Information pages at the back of this document and Abbott's Form ADV Part 2A for disclosures on risk and performance, and calculation of both AUM and RAUM.

Abbott's Private Equity-Focused Organization

Investments



Jonathan Roth
Managing Director,
President (1992)



Timothy Maloney
Managing Director
(2004)



Meredith Rerisi
Managing Director
(1998)



Matthew Smith
Managing Director
(2000)



Len Pangburn
Managing Director
(2005)



Young Lee
Managing Director
(2007)



Katie Stokel
Managing Director,
COO (1998)



Jobst Klemme*
Director



Jennie Benza
Principal



Wolf Witt
Vice President



Lance Zhou
Vice President



Arianna Merrill
Vice President



Jonathan Tubiana
Vice President



Moritz Turck*
Vice President



Brian Susetka
Senior Associate



Declan Feeley
Associate



Sean Bacon
Analyst



Taylor McGinnis
Analyst

Client Relations and Business Development



Ryan Green
Director



Melanie Jones
Vice President



Dan Kettner
Vice President



Kristin Kunert
Vice President



Valentine Whittaker
Vice President

Operations, Finance, Legal & Compliance



Lauren Massey
Managing Director,
Chief Admin.
Officer (1995)



Paolo Parziale
Managing Director,
Chief Financial
Officer (2002)



Mary Hornby
Managing Director,
General Counsel
(2004)



Monique Horton
Chief Compliance
Officer

Abbott's Managing Directors have an average of 22 years experience and 18 years working together

Building Private Equity Portfolios for Institutional Investors



Representative Investor Relationships¹

Public Pension Funds

Alaska Retirement Management Board
 Army & Air Force Exchange Service
 Baltimore Employees' Retirement System
 British Coal Staff Superannuation Trust
 City of Aurora General Employees' Retirement System
 City of Milwaukee Employees' Retirement System
 Illinois Municipal Retirement Fund
 Kern County Employees' Retirement Association
 Marin County Employees' Retirement Association
 Nebraska Investment Council
 New York State Teachers' Retirement System
 Orange County Employees Retirement System
 Sacramento County Employees' Retirement System
 Utah Retirement System
 Ventura County Employees' Retirement Association

Corporate Pension Funds & Insurance Companies

Baxter International
 Belk Pension Plan Trust
 BMW Pension Plan
 Hess Corporation
 Michigan Catastrophic Claims Association
 Portico Benefit Services
 Reuters Pension Fund Trustees Limited
 Reynolds American Inc.
 Severn Trent PIF Trustees, Ltd.
 The Trustees of BOCM PAULS Pension Scheme
 Triple – S Propiedad, Inc.

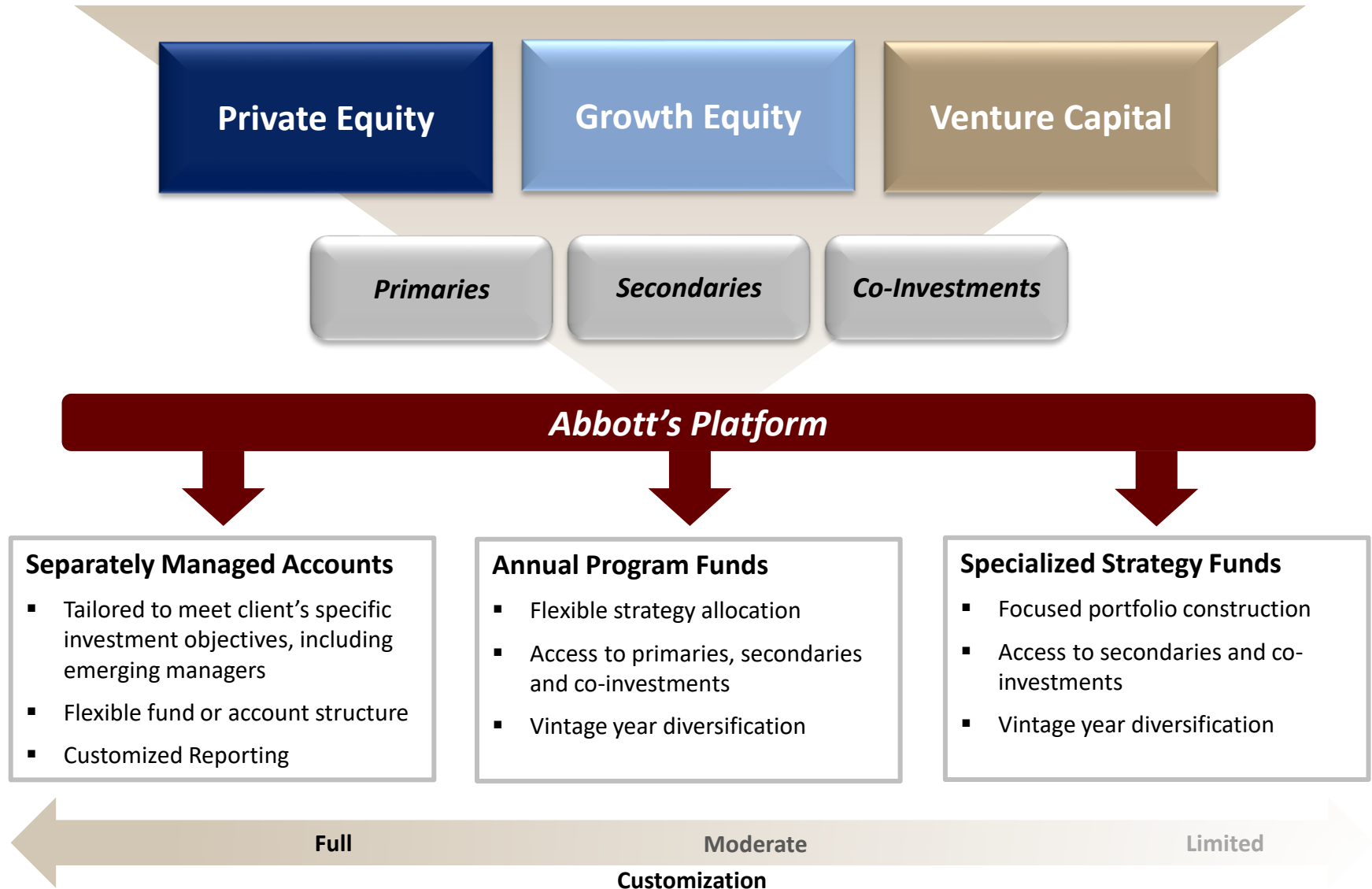
Endowments & Foundations

Bradley University
 Community Investment Group
 Evangelical Covenant Church
 Gates Family Foundation
 Grupo Guayacán
 HFSF Grants Management, Inc.
 M.J. Murdock Charitable Trust
 NY Community Trust
 Polk Bros. Foundation
 The Greater Cincinnati Foundation
 The Texas A&M University System

30+ years of building private equity portfolios for sophisticated, long-term investors around the world

¹Represents up to the 10 largest investors by category that have committed to any Annual Program Fund, plus any Abbott Fund organized since 2007, plus each actively investing separately managed discretionary client account as of December 31, 2019, in each category. Excludes investors imposing confidentiality restrictions on use of their name or whose relationship with Abbott commenced after this date. References to any specific investor or client should not be construed as an endorsement of Abbott by any such investor.

Global Private Equity Solutions



Abbott's Performance Across Market Cycles

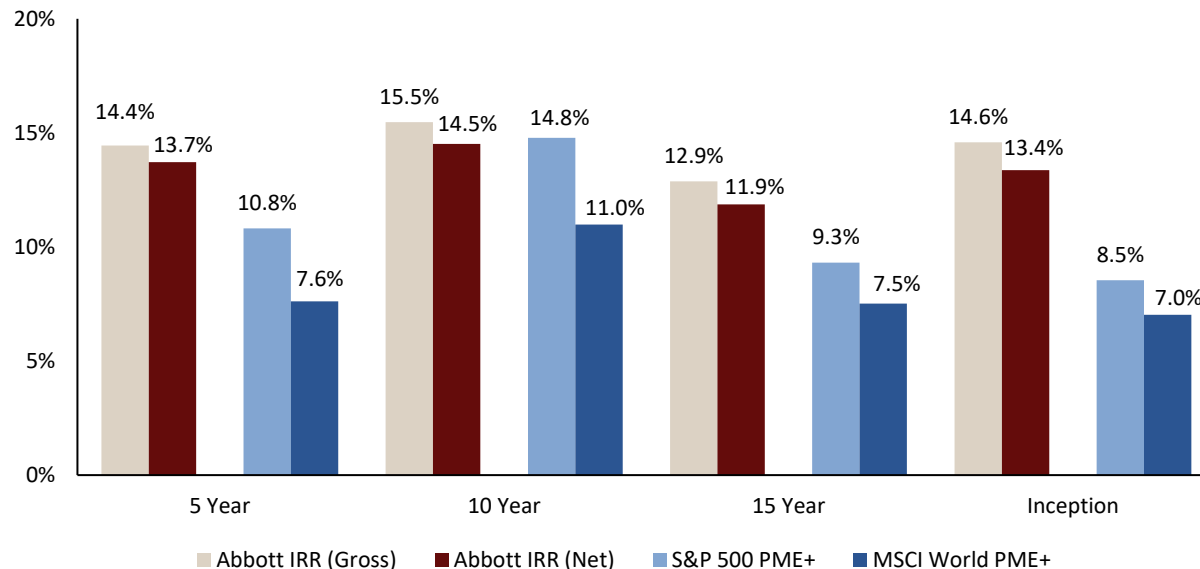
As of 6/30/2020

Performance Highlights

From 1987 – 2016:

- Abbott has **consistently outperformed** public market equivalents over several market cycles
- Abbott has generated **double digit IRRs** in **25 out of 30** vintage years
- Abbott has **not lost capital for any investor** in its commingled fund investment programs

Abbott Horizon Performance



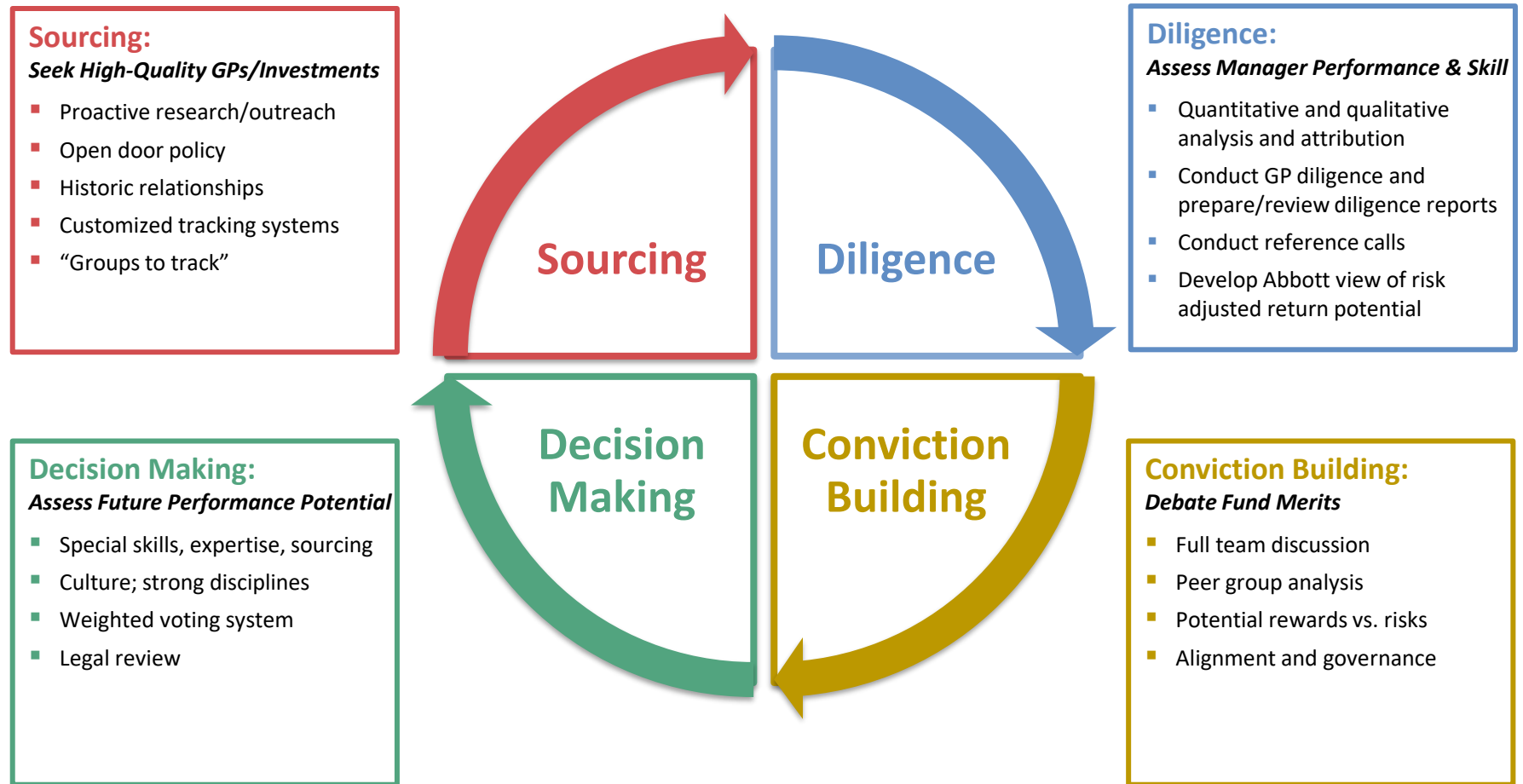
Abbott Performance by Vintage Year

	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
IRR (%)	23.6	24.8	24.3	22.0	15.2	36.1	44.0	32.6	45.8	16.1	22.4	8.2	0.2	8.1	24.1	16.8	25.9	11.2	9.4	7.8	10.9	12.8	12.8	15.8	18.4	16.5	14.2	22.5	13.2	13.2
TVPI (x)	4.2	3.2	2.7	2.2	2.1	2.9	4.4	2.9	3.2	1.8	2.0	1.4	1.0	1.5	2.1	2.5	2.2	1.7	1.6	1.5	1.7	1.7	1.7	2.0	2.0	1.8	1.5	1.9	1.4	1.3

Judgment and careful selection have generated attractive returns over the long-term and in each vintage year

Past performance is not a guide to future results and is not indicative of expected realized returns. Net performance is not available by vintage year. The indices listed have not been selected to represent benchmarks for the portfolio, but rather allow for comparison of the portfolio's performance to that of a widely recognized index. See Important Information pages at the back of this document and Abbott's Form ADV Part 2A for disclosures on risk and impact of fees on performance, and additional information on PME (+).

Investment Due Diligence



Entire investment staff perspective is considered throughout iterative due-diligence process

Although the foregoing describes the typical areas reviewed by Abbott when monitoring an investment, not every monitoring item occurs nor is every factor considered by Abbott in each instance it evaluates an investment.

Abbott's Risk Management Program

Portfolio Construction

- Abbott's **Portfolio Construction Committee ("PCC")** is responsible for tracking and guiding the implementation of the individual portfolio construction and diversification guidelines in place for each actively investing fund or account, which includes:
 - ✓ Evaluating suitability of investments for each portfolio based on **size, sector, stage, geography, and vintage year**
 - ✓ **Sizing and pacing** of commitments
 - ✓ Overseeing the **allocation process**

Operational Due Diligence and Monitoring

- **Operational due diligence and monitoring** of each investment is conducted by **multiple members of the Investment and Operations teams**, and covers:
 - ✓ Initial and ongoing contact with fund management teams
 - ✓ Monitor valuation practices
 - ✓ Reconcile investment activity and performance
 - ✓ Participation in annual meetings and LPACs

MCERA Investment Review

Marin County Employees Retirement Association Snapshot

As of 6/30/2020

Selected Portfolio Highlights

	ACE VI	ACE VII	AP 2016 ²	AP 2017 ²	Total
Total Fund Size	\$1,022.1	\$273.3	\$149.1	\$407.2	
Commitments to Partnership Investments	\$1,007.7	\$301.3	\$161.1	\$433.6	
Primary/Opportunistic Investments¹	42/14	31/9	46/9	53/11	
Vintage Years of Primary Partnership Investments	2008-2014	2014-2017	2016-2019	2017-2020	
Average Age of Portfolio Company Investments in years	7.2	3.6	2.1	1.6	
Investor Commitment	\$100.0	\$35.0	\$50.0	\$15.0	\$200.0
Contributions	\$99.0	\$34.3	\$33.4	\$6.6	\$173.3
<i>As a % of LP Commitment</i>	99.0%	98.0%	66.8%	44.3%	86.7%
Distributions	\$108.9	\$13.3	\$2.8	\$0.0	\$125.0
Latest Valuation	\$60.1	\$40.1	\$37.0	\$7.8	\$145.0
Total Value	\$168.9	\$53.4	\$39.8	\$7.8	\$270.0
Net IRR	12.2%	16.3%	11.7%	12.0%	12.7%
Net DPI	1.1x	0.4x	0.1x	0.0x	0.7x
Net TVPI	1.7x	1.6x	1.2x	1.2x	1.6x

All values shown in millions. Numbers may not sum due to rounding. ¹Opportunistic Investments includes secondaries and/or co-investments. ²Fund level data does not take into client specific strategy allocations. **Past performance is not a guide to future results and is not indicative of expected realized returns.** See Important Information pages at the back of this document and Abbott's Form ADV Part 2A for disclosures on risk and performance and the definition of NM - Abbott Funds (if applicable).

ACE VI: Summary

As of 6/30/2020

Fund Summary

Final Close Date	March 16, 2009
Vintage Year	2008
Fund Size (\$M)	\$1,022.1
Amount Committed (\$M)	\$1,007.7
<i>As a % of Fund Size</i>	<i>98.6%</i>

Fund Metrics

Amount Contributed (\$M)	\$1,011.8
<i>As a % of Fund size</i>	<i>99.0%</i>
Amount Distributed (\$M)	\$1,115.1
Latest Valuation (\$M)	\$606.7
Total Value (\$M)	\$1,721.7
Net IRR	12.1%
Net TVPI	1.7x
Net DPI	1.1x

Current Portfolio Metrics

Number of Active Portfolio Companies	921
Average Age of Active Portfolio Company Investments (years)	7.2

Fund Highlights

- Fund is currently in the harvest phase
- The Global Financial Crisis and resulting slowdown in private equity activity caused a prolonged investment period, which led to a majority of the commitments being made from 2010 through 2012
- With 921 active underlying portfolio companies, significant unrealized value remains in the Fund, particularly within the venture capital and growth equity segment.
- The 7% allocation to lower middle market buyouts via Abbott Select Buyouts II (portfolio return of 2.2x, 22% IRR as of Q2) has contributed meaningfully to the returns of the Fund

Past performance is not a guide to future results and is not indicative of expected realized returns. Net IRR and Net Multiples are at the Abbott Fund level. An individual investor's returns will differ from these due to varying limited partner closing dates, management fee, and commitment amounts. Diversification will not guarantee profitability or protection against loss. See Important Information pages at the back of this document and Abbott's Form ADV Part 2A for disclosures on risk and performance.

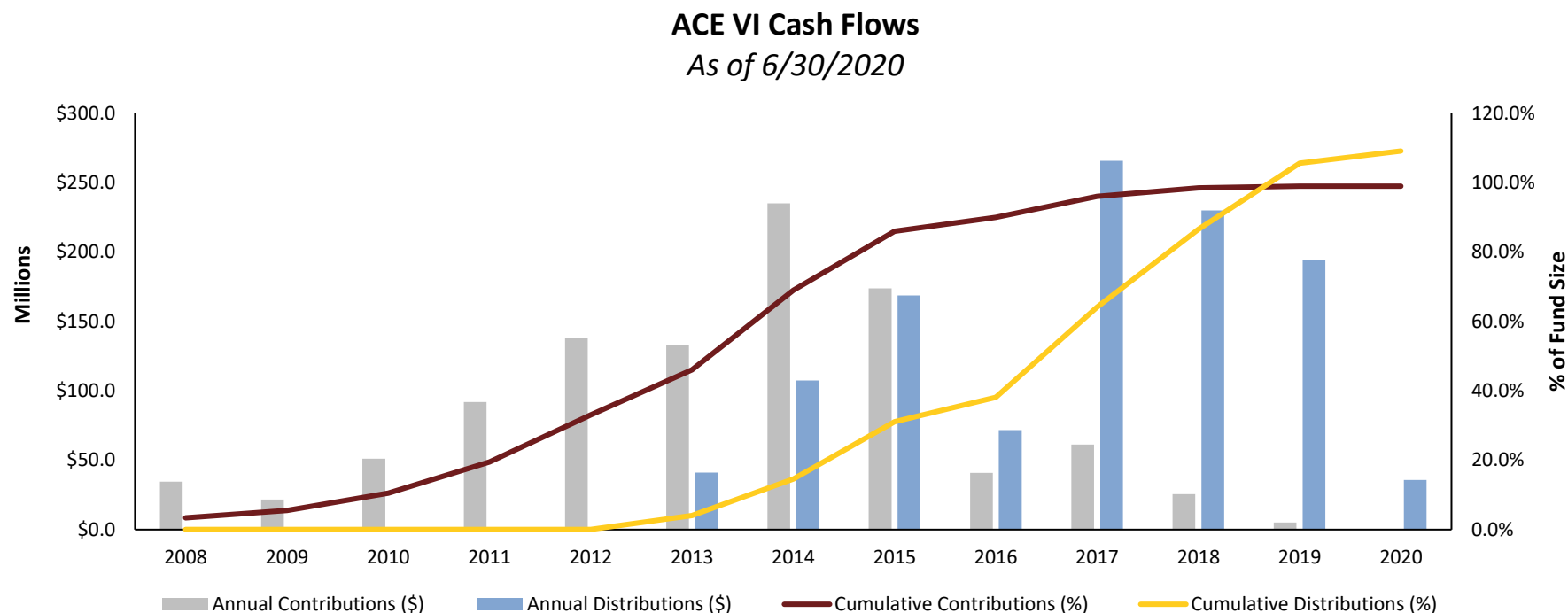
ACE VI: Strategy Summary

As of 6/30/2020

	Venture Capital and Growth Equity	Buyouts	Special Situations	Secondaries
No. of Investments	17	10	15	14
Vintage Years of Primary Investments	2009-2014	2008, 2011-2013	2008, 2010-2013	NA
Commitments (\$M)	\$278.7	\$331.0	\$310.6	\$87.3
Amount Paid-in (\$M)	\$280.4	\$331.3	\$320.5	\$85.4
<i>as a % of Commitments</i>	100.6%	100.1%	103.2%	97.9%
Distributions (\$M)	\$341.3	\$415.9	\$385.5	\$98.0
Valuation (\$M)	\$259.5	\$174.5	\$128.6	\$22.9
Total Value (Valuation + Distributions) (\$M)	\$600.8	\$590.4	\$514.1	\$120.9
Strategy IRR	18.0%	16.0%	12.1%	14.2%
Strategy TVPI	2.1x	1.8x	1.6x	1.4x
Strategy DPI	1.2x	1.3x	1.2x	1.1x

Past performance is not a guide to future results and is not indicative of expected realized returns. Strategy IRR, TVPI, and DPI are shown gross of management fee charged by Abbott, Abbott fund expenses, and carried interest if applicable. An individual investor's returns will differ from these due to varying limited partner closing dates, management fee, and commitment amounts. Diversification will not guarantee profitability or protection against loss. See Important Information pages at the back of this document and Abbott's Form ADV Part 2A for disclosures on risk and performance.

ACE VI: Abbott Fund Cash Flows



Subsequent Events

	7/1/2020 – 9/30/2020	Total as of 9/30/2020
Contributions	\$5,110,251	\$1,016,939,849
Distributions	\$35,771,754	\$1,149,806,363

Past performance is not a guide to future results and is not indicative of expected realized returns. No assurances can be given that cash flows will continue at this pace in the future or that the Abbott Funds will make any further distributions. See Important Information pages at the back of this document and Abbott's Form ADV Part 2A for disclosures on risk and performance.

ACE VI: Statement of Investments

As of 6/30/2020

Venture Capital and Growth Equity (Primary Investments)	Vintage Year	Commitment	Amount Paid-in	Distributions	Valuation	Total Value	TVPI	IRR
New Enterprise Associates 13	2009	\$25,000,000	\$25,000,000	\$34,360,892	\$21,575,087	\$55,935,979	2.2x	
TA XI	2010	\$35,000,000	\$34,387,500	\$67,114,266	\$41,747,310	\$108,861,576	3.2x	
Oak Investment Partners XIII	2010	\$27,500,000	\$27,500,000	\$14,371,836	\$15,797,165	\$30,169,001	1.1x	
JMI Equity Fund VII	2011	\$13,500,000	\$13,203,000	\$17,021,537	\$11,055,036	\$28,076,573	2.1x	
Battery Ventures IX	2011	\$6,200,000	\$6,097,703	\$10,918,138	\$7,351,802	\$18,269,940	3.0x	
Summit Partners Growth Equity Fund VIII	2012	\$38,500,000	\$42,757,901	\$72,583,218	\$19,992,828	\$92,576,046	2.2x	
ABS Capital Partners VII	2012	\$21,000,000	\$21,767,467	\$10,223,959	\$22,187,268	\$32,411,227	1.5x	
Canaan IX	2012	\$21,000,000	\$20,580,000	\$19,149,529	\$22,919,069	\$42,068,598	2.0x	
New Enterprise Associates 14	2012	\$20,000,000	\$19,100,000	\$18,400,986	\$23,668,034	\$42,069,020	2.2x	
Lightspeed Venture Partners IX	2012	\$10,000,000	\$9,850,000	\$22,880,366	\$12,849,492	\$35,729,858	3.6x	
Summit Partners Venture Capital Fund III-A	2012	\$6,500,000	\$7,763,600	\$8,337,338	\$7,473,551	\$15,810,889	2.0x	
ChrysCapital VI	2012	\$6,000,000	\$5,820,255	\$7,530,235	\$3,038,877	\$10,569,112	1.8x	
Battery Ventures X	2013	\$8,600,000	\$7,869,000	\$3,949,464	\$8,373,591	\$12,323,055	1.6x	
Longitude Venture Partners II	2013	\$7,000,000	\$7,864,276	\$2,616,149	\$8,716,454	\$11,332,603	1.4x	
North Bridge Growth Equity II	2013	\$7,000,000	\$7,000,000	\$2,187,494	\$13,065,301	\$15,252,795	2.2x	
Battery Ventures X Side Fund	2013	\$3,400,000	\$3,102,500	\$4,125,865	\$2,858,370	\$6,984,235	2.3x	
LLR Equity Partners IV	2014	\$22,500,000	\$20,700,000	\$25,577,345	\$16,803,631	\$42,380,976	2.0x	
Total Venture Capital and Growth Equity		\$278,700,000	\$280,363,202	\$341,348,616	\$259,472,866	\$600,821,482	2.1x	18.0%

Past performance is not a guide to future results and is not indicative of expected realized returns. No assurances can be given that cash flows will continue at this level in the future or that the underlying portfolio funds will make any further distributions. Strategy IRR and TVPI are shown gross of fees charged by Abbott. See Important Information pages at the back of this document and Abbott's Form ADV Part 2A for disclosures on risk and performance.

ACE VI: Statement of Investments

As of 6/30/2020

Buyouts (Primary Investments)	Vintage Year	Commitment	Amount Paid-in	Distributions	Valuation	Total Value	TVPI	IRR
Abbott Select Buyouts Fund II, L.P.	2008	\$70,000,000	\$67,776,583	\$125,827,631	\$22,941,335	\$148,768,966	2.2x	
CVC European Equity Partners V ¹	2008	\$39,446,046	\$39,086,821	\$74,938,898	\$4,850,764	\$79,789,662	2.0x	
Candover 2008 Fund ¹	2008	\$4,982,642	\$4,897,640	\$110,809	-	\$110,809	0.0x	
Montagu IV ¹	2011	\$21,735,627	\$22,186,713	\$29,809,137	\$3,594,361	\$33,403,498	1.5x	
Berkshire Fund VIII	2011	\$14,500,000	\$15,816,472	\$14,797,412	\$9,879,302	\$24,676,714	1.6x	
Advent International GPE VII-B	2012	\$45,000,000	\$42,299,995	\$43,809,034	\$32,502,777	\$76,311,811	1.8x	
Green Equity Investors VI	2012	\$45,000,000	\$49,222,894	\$34,984,824	\$47,093,677	\$82,078,501	1.7x	
Cinven Fifth Fund ¹	2012	\$39,486,082	\$42,192,857	\$55,989,795	\$12,220,202	\$68,209,997	1.6x	
Archer Capital Fund 5 ¹	2012	\$5,867,392	\$4,721,128	\$3,259,022	\$2,687,494	\$5,946,516	1.3x	
The Resolute Fund III	2013	\$45,000,000	\$43,083,056	\$32,328,108	\$38,757,963	\$71,086,071	1.6x	
Total Buyouts		\$331,017,790	\$331,284,158	\$415,854,669	\$174,527,875	\$590,382,544	1.8x	16.0%

¹Non-US dollar denominated portfolio fund. Past performance is not a guide to future results and is not indicative of expected realized returns. No assurances can be given that cash flows will continue at this level in the future or that the underlying portfolio funds will make any further distributions. Strategy IRR and TVPI are shown gross of fees charged by Abbott. See Important Information pages at the back of this document and Abbott's Form ADV Part 2A for disclosures on risk and performance.

ACE VI: Statement of Investments

As of 6/30/2020

Special Situations (Primary Investments)	Vintage Year	Commitment	Amount Paid-in	Distributions	Valuation	Total Value	TVPI	IRR
First Reserve Fund XII	2008	\$45,000,000	\$49,542,013	\$24,598,412	\$4,105,999	\$28,704,411	0.6x	
Madison Dearborn Capital Partners VI	2008	\$45,000,000	\$47,889,807	\$77,095,759	\$26,129,969	\$103,225,728	2.2x	
Trident V (Stone Point)	2010	\$22,500,000	\$25,831,983	\$29,241,457	\$14,142,148	\$43,383,605	1.7x	
Energy Spectrum Partners VI	2010	\$15,000,000	\$12,889,911	\$12,603,053	\$3,220,642	\$15,823,695	1.2x	
ABRY Senior Equity III	2010	\$12,000,000	\$12,088,405	\$19,130,298	\$341,161	\$19,471,459	1.6x	
TA Subordinated Debt Fund III	2010	\$10,000,000	\$9,750,000	\$13,949,604	\$3,822,494	\$17,772,098	1.8x	
EnCap Energy Capital Fund VIII	2010	\$7,750,000	\$8,552,836	\$5,041,922	\$1,205,775	\$6,247,698	0.7x	
GTCR Fund X	2011	\$45,000,000	\$41,961,874	\$85,893,920	\$2,251,967	\$88,145,887	2.1x	
Hellman & Friedman Capital Partners VII	2011	\$22,500,000	\$21,482,900	\$32,151,447	\$30,359,830	\$62,511,277	2.9x	
EIF United States Power Fund IV	2011	\$15,000,000	\$18,054,931	\$8,295,787	\$11,327,692	\$19,623,479	1.1x	
ABRY Partners VII	2011	\$6,500,000	\$6,901,481	\$9,257,659	\$1,806,026	\$11,063,685	1.6x	
EnCap Energy Capital Fund VIII Co-Investors	2011	\$1,774,000	\$1,826,968	\$661,611	\$542,950	\$1,204,560	0.7x	
Warburg Pincus Private Equity XI	2012	\$45,000,000	\$45,337,500	\$46,779,498	\$24,440,581	\$71,220,079	1.6x	
ABRY Senior Equity IV	2012	\$12,125,000	\$12,189,315	\$16,068,963	\$3,415,983	\$19,484,946	1.6x	
EnCap Energy Capital Fund IX	2013	\$5,500,000	\$6,236,752	\$4,760,691	\$1,503,896	\$6,264,587	1.0x	
Total Special Situations		\$310,649,000	\$320,536,676	\$385,530,081	\$128,617,114	\$514,147,195	1.6x	12.1%

Past performance is not a guide to future results and is not indicative of expected realized returns. No assurances can be given that cash flows will continue at this level in the future or that the underlying portfolio funds will make any further distributions. Strategy IRR and TVPI are shown gross of fees charged by Abbott. See Important Information pages at the back of this document and Abbott's Form ADV Part 2A for disclosures on risk and performance.

ACE VI: Statement of Investments

As of 6/30/2020

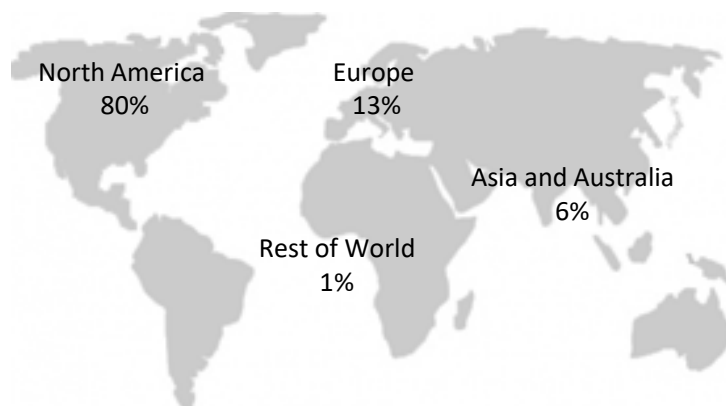
Secondary Interests	Investment Date	Invested Capital	Amount Paid-in	Distributions	Valuation	Total Value	TVPI	IRR
The Resolute Fund II	01/13/2012	\$9,247,562	\$9,138,658	\$10,763,540	\$3,557,990	\$14,321,530	1.6x	
Oak Investment Partners XII	03/30/2012	\$5,452,175	\$5,452,175	\$5,149,811	\$1,850,587	\$7,000,398	1.3x	
The Resolute Fund	06/28/2012	\$2,654,261	\$2,445,510	\$4,383,439	-	\$4,383,439	1.8x	
Summit Partners Private Equity Fund VII-A	12/31/2012	\$1,904,509	\$1,904,509	\$3,461,010	\$534,544	\$3,995,554	2.1x	
TA X	12/31/2012	\$1,458,656	\$1,344,110	\$2,441,456	\$1,323	\$2,442,779	1.8x	
TA Subordinated Debt Fund II	12/31/2012	\$350,195	\$180,630	\$502,829	\$4,327	\$507,156	2.8x	
Project Madison	04/15/2014	\$3,011,672	\$2,882,033	\$6,060,842	\$938,257	\$6,999,099	2.4x	
Project Paris	09/30/2014	\$10,018,301	\$9,906,357	\$8,013,051	\$3,131,022	\$11,144,073	1.1x	
Project Energy	09/30/2014	\$6,431,090	\$5,530,020	\$3,520,872	\$159,136	\$3,680,008	0.7x	
Project Ginger	01/01/2015	\$5,363,222	\$5,256,970	\$9,528,723	-	\$9,528,723	1.8x	
Project Towers ¹	01/14/2015	\$15,093,674	\$14,338,437	\$13,399,394	\$3,290,571	\$16,689,965	1.2x	
Project Rock	05/15/2015	\$14,215,757	\$15,415,761	\$14,560,169	\$4,735,625	\$19,295,794	1.3x	
Project Patent	07/29/2015	\$10,500,000	\$10,057,540	\$14,675,028	\$3,745,104	\$18,420,132	1.8x	
Project Alto	10/30/2015	\$1,595,188	\$1,595,060	\$1,588,934	\$919,858	\$2,508,792	1.6x	
Total Secondary Interests		\$87,296,261	\$85,447,770	\$98,049,098	\$22,868,344	\$120,917,441	1.4x	14.2%

¹Non-US dollar denominated portfolio investment. **Past performance is not a guide to future results and is not indicative of expected realized returns.** No assurances can be given that cash flows will continue at this level in the future or that the underlying portfolio investments will make any further distributions. Strategy IRR and TVPI are shown gross of fees charged by Abbott. See Important Information pages at the back of this document and Abbott's Form ADV Part 2A for disclosures on risk and performance.

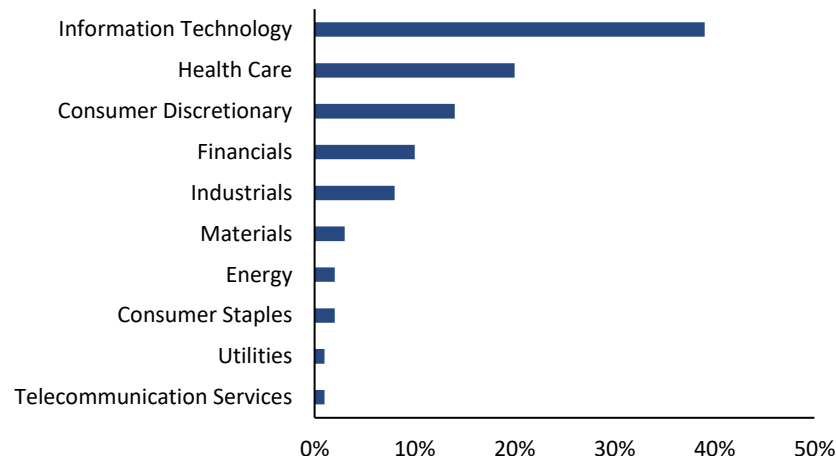
ACE VI: Portfolio Company Diversification

As of 6/30/2020

Geographic Diversification by Value



Industry Diversification by Value



Top Ten Portfolio Companies By Proportionate Value

Company Name	Portfolio Fund Name
Zoom Information, Inc. ¹	TA Subordinated Debt Fund II, TA Subordinated Debt Fund III, TA XI
CloudFlare, Inc. ¹	New Enterprise Associates 13
ConnectYourCare, Inc.	ABS Capital Partners VII
Securitas Direct ¹	Hellman & Friedman Capital Partners VII
Jetro Cash and Carry, Inc.	Green Equity Investors VI
Capstone Logistics LLC	The Resolute Fund III
Option Care, Inc	Madison Dearborn Capital Partners VI
Synlab	Cinven Fifth Fund
National Financial Partners, Inc.	Madison Dearborn Capital Partners VI
Parts Authority	The Resolute Fund III
Total Top Ten Portfolio Companies	\$125.4M (18.9% of Total Proportionate Value)

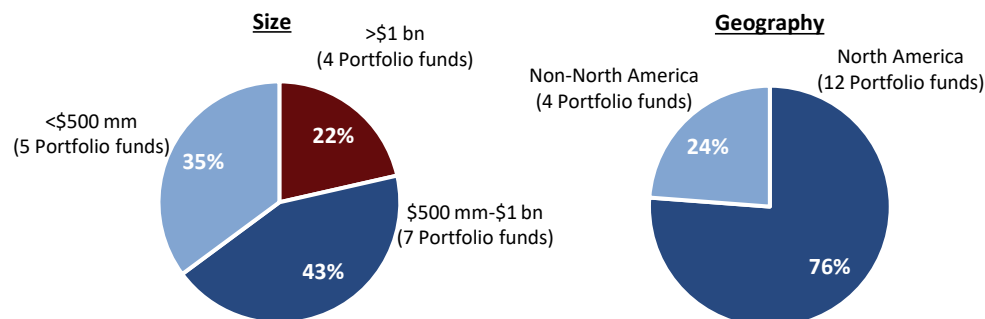
¹Denotes publicly traded company. Portfolio companies are not held directly by the Abbott Fund. Proportionate Value is an estimate only and is calculated based on the fund's share of the total capital committed by all investors of the relevant portfolio fund. [Diversification](#) will not guarantee profitability or protection against loss.

Abbott Select Buyouts II: Summary

As of 6/30/2020

- Final Close: November 20, 2008
- Fund Size: \$302.5 million
- Amount Committed: \$298.9 million (98.8% of Fund size)

Primary Fund Diversification | By Amount Committed



ACE VI Commitment	Vintage Year	Total Commitment	Amount Paid-In	Total Distributions	Latest Valuation	Total Value	TVPI	IRR
Abbott Select Buyouts Fund II, L.P.	2008	\$70,000,000	\$67,776,583	\$125,827,631	\$22,941,335	\$148,768,966	2.2x ³	20.2% ³
Select Buyouts Fund II Portfolio Funds								
Eos Capital Partners IV	2007	\$15,000,000	\$15,114,461	\$22,255,795	-	\$22,255,795	1.5x	
Great Hill Equity Partners IV	2008	\$20,000,000	\$20,000,000	\$47,582,630	\$9,910,741	\$57,493,371	2.9x	
MSouth Equity Partners	2008	\$20,000,000	\$18,727,917	\$41,406,136	\$4,016,163	\$45,422,299	2.4x	
ABRY Partners VI	2008	\$1,900,000	\$1,910,405	\$3,698,456	\$38,497	\$3,736,953	2.0x	
ECI 9 ¹	2009	\$26,238,696	\$24,390,352	\$44,309,592	\$4,100,272	\$48,409,864	2.0x	
Riverside Fund IV	2009	\$20,000,000	\$15,715,018	\$36,282,215	\$348,246	\$36,630,461	2.3x	
Prairie Capital V	2010	\$20,000,000	\$17,000,000	\$44,871,940	\$8,831,173	\$53,703,113	3.2x	
Spectrum Equity Investors VI	2010	\$20,000,000	\$18,350,000	\$38,451,780	\$5,617,711	\$44,069,491	2.4x	
Cortec Group Fund V	2011	\$20,000,000	\$20,461,764	\$77,017,979	\$7,838,249	\$84,856,228	4.1x	
Harvest Partners VI	2011	\$20,000,000	\$19,904,491	\$31,517,698	\$8,589,562	\$40,107,260	2.0x	
Lightyear Fund III	2011	\$20,000,000	\$20,507,551	\$44,022,096	\$1,522,273	\$45,544,369	2.2x	
Wicks Capital Partners IV	2011	\$20,000,000	\$21,085,536	\$23,166,792	\$11,325,621	\$34,492,413	1.6x	
Astorg V ¹	2011	\$19,168,373	\$19,807,180	\$29,647,438	\$7,955,316	\$37,602,753	1.9x	
Gilde Buy-Out Fund IV ¹	2011	\$12,717,568	\$12,717,568	\$15,339,039	\$2,675,475	\$18,014,514	1.4x	
Halifax Capital Partners III	2012	\$20,000,000	\$20,647,068	\$23,098,512	\$8,388,805	\$31,487,317	1.5x	
Livingbridge 5 ¹	2012	\$9,655,292	\$9,005,430	\$12,326,457	\$6,273,075	\$18,599,531	2.1x	
Project Rock ²	05/15/2015	\$14,215,757	\$15,415,761	\$14,560,169	\$4,735,625	\$19,295,794	1.3x	

¹Non-U.S. dollar denominated portfolio funds. ²The secondary interest is comprised of multiple limited partnership interests with various vintage years and/or investment types. ³ASB II IRR and TVPI are shown net of expenses payable by ASB II but gross of management fee, carried interest or expenses payable by ACE VI. Abbott does not receive a double management fee or carry. No assurances can be given that cash flows will continue at this level in the future or that the underlying portfolio funds or investments will make any further distributions. **Past performance is not a guide to future results and is not indicative of expected realized returns.** Diversification will not guarantee profitability or protection against loss. IRR and TVPI are shown gross of management fee charged by Abbott, Abbott fund expenses, and carried interest if applicable. See Important Information pages at the back of this document and Abbott's Form ADV Part 2A for disclosures on risk and performance.

ACE VII: Summary

As of 6/30/2020

Fund Summary

Final Close Date	December 30, 2014
Vintage Year	2014
Fund Size (\$M)	\$273.3
Amount Committed (\$M)	\$301.3
<i>As a % of Fund Size</i>	<i>110.2%</i>

Fund Metrics

Amount Contributed (\$M)	\$267.8
<i>As a % of Fund Size</i>	<i>98.0%</i>
Amount Distributed (\$M)	\$104.1
Latest Valuation (\$M)	\$315.4
Total Value (\$M)	\$419.4
Net IRR	16.3%
Net TVPI	1.6x
Net DPI	0.4x

Current Portfolio Metrics

Number of Active Portfolio Companies	1,113
Average Age of Active Portfolio Company Investments (years)	3.6

Fund Highlights

- Underlying portfolio funds are generally in the value creation phase
- Capital deployment began in earnest in 2015
- ACE VII's attractive performance to date (16.3% net IRR, 1.6x TVPI) is attributed largely to strong unrealized performance and liquidity from secondary investments and venture capital and growth equity funds.
- The Fund's DPI increased to 0.4x as of Q2 2020

Past performance is not a guide to future results and is not indicative of expected realized returns. Net IRR and Net Multiples are at the Abbott Fund level. An individual investor's returns will differ from these due to varying limited partner closing dates, management fee, and commitment amounts. Diversification will not guarantee profitability or protection against loss. See Important Information pages at the back of this document and Abbott's Form ADV Part 2A for disclosures on risk and performance.

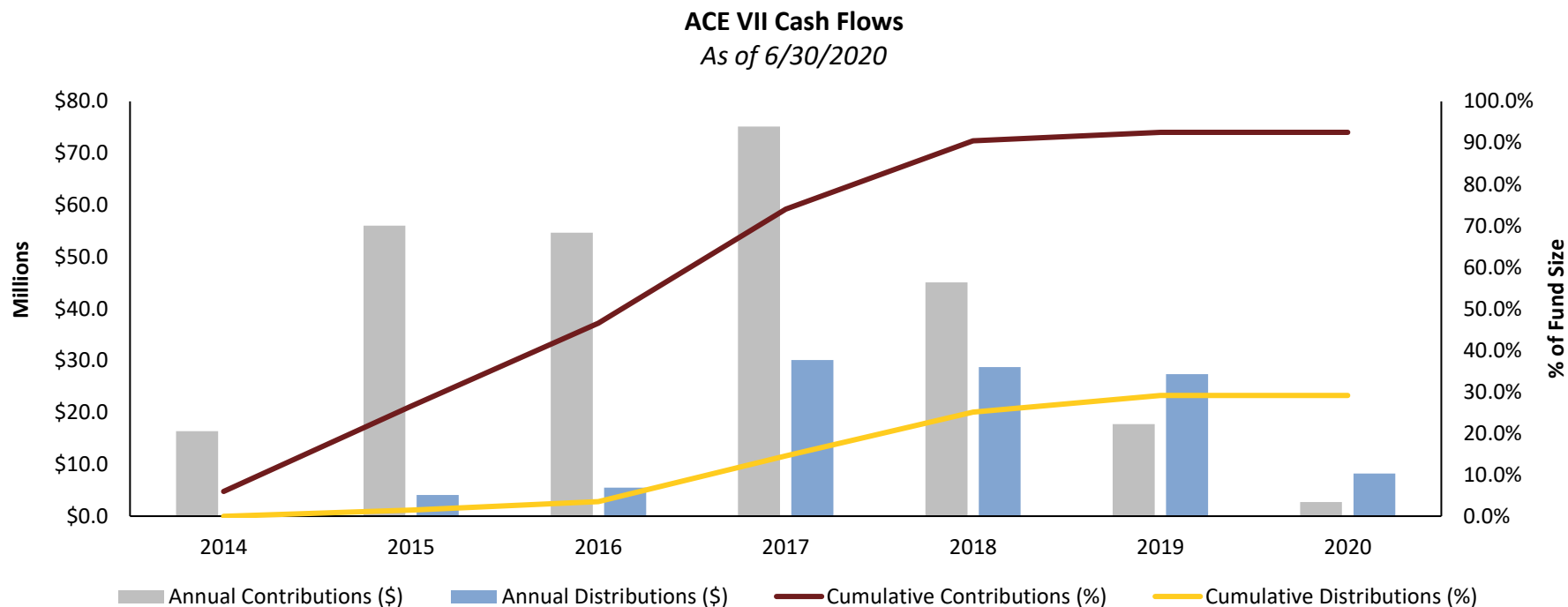
ACE VII: Strategy Summary

As of 6/30/2020

Strategy Summary	Venture Capital and Growth Equity	Buyouts and Special Situations	Secondaries
No. of Investments	14	17	9
Vintage Years of Primary Investments	2014-2016	2014-2017	NA
Commitments (\$M)	\$105.4	\$168.6	\$27.3
Amount Paid-in (\$M)	\$98.0	\$154.1	\$26.0
<i>as a % of Commitments</i>	93.0%	91.4%	95.2%
Distributions (\$M)	\$44.2	\$56.6	\$35.2
Valuation (\$M)	\$144.1	\$149.5	\$15.1
Total Value (Valuation + Distributions) (\$M)	\$188.3	\$206.1	\$50.4
Strategy IRR	23.3%	12.2%	30.0%
Strategy TVPI	1.9x	1.3x	1.9x
Strategy DPI	0.5x	0.4x	1.4x

Past performance is not a guide to future results and is not indicative of expected realized returns. Strategy IRR, TVPI, and DPI are shown gross of management fee charged by Abbott, Abbott fund expenses, and carried interest if applicable. An individual investor's returns will differ from these due to varying limited partner closing dates, management fee, and commitment amounts. Diversification will not guarantee profitability or protection against loss. See Important Information pages at the back of this document and Abbott's Form ADV Part 2A for disclosures on risk and performance.

ACE VII: Abbott Fund Cash Flows



Subsequent Events

	7/1/2020 – 9/30/2020	Total as of 9/30/2020
Contributions	\$1,366,400	\$269,180,801
Distributions	\$4,099,200	\$107,945,600

Past performance is not a guide to future results and is not indicative of expected realized returns. No assurances can be given that cash flows will continue at this pace in the future or that the Abbott Funds will make any further distributions. See Important Information pages at the back of this document and Abbott's Form ADV Part 2A for disclosures on risk and performance.

ACE VII: Statement of Investments

As of 6/30/2020

Venture Capital and Growth Equity (Primary Investments)	Vintage Year	Commitment	Amount Paid-in	Distributions	Valuation	Total Value	TVPI	IRR
Abbott Select Venture Fund, L.P. ¹	2014	\$13,500,000	\$10,500,041	\$1,552,326	\$16,430,989	\$17,983,315	1.7x	
Oak HC/FT Partners	2014	\$12,500,000	\$11,643,232	\$5,687,227	\$20,971,113	\$26,658,340	2.3x	
Spectrum Equity Investors VII	2014	\$12,500,000	\$11,687,500	\$14,805,072	\$18,436,454	\$33,241,526	2.8x	
M/C Venture Partners VII	2014	\$7,500,000	\$6,570,086	\$2,960,777	\$7,995,350	\$10,956,127	1.7x	
Sofinnova Venture Partners IX	2014	\$4,500,000	\$4,365,000	\$1,447,078	\$4,736,236	\$6,183,314	1.4x	
Lightspeed Venture Partners Select	2014	\$1,900,000	\$1,862,000	\$1,645,291	\$1,767,126	\$3,412,417	1.8x	
Lightspeed Venture Partners X	2014	\$1,900,000	\$1,824,000	\$941,876	\$2,758,121	\$3,699,997	2.0x	
New Enterprise Associates 15	2015	\$12,500,000	\$11,437,500	\$2,678,111	\$16,406,716	\$19,084,827	1.7x	
Canaan X	2015	\$11,500,000	\$11,040,000	\$688,148	\$15,153,673	\$15,841,821	1.4x	
JMI Equity Fund VIII	2015	\$11,500,000	\$12,374,000	\$7,391,282	\$11,611,910	\$19,003,192	1.5x	
Insight Venture Partners IX	2015	\$6,250,000	\$6,396,598	\$1,533,860	\$13,317,485	\$14,851,345	2.3x	
Battery Ventures XI	2016	\$4,250,000	\$3,476,500	\$726,232	\$6,612,476	\$7,338,708	2.1x	
TA XII	2016	\$3,125,000	\$3,000,008	\$1,899,221	\$3,738,635	\$5,637,856	1.9x	
Battery Ventures XI Side Fund	2016	\$2,000,000	\$1,871,000	\$240,468	\$4,202,587	\$4,443,055	2.4x	
Total Venture Capital and Growth Equity		\$105,425,000	\$98,047,466	\$44,196,968	\$144,138,872	\$188,335,839	1.9x	23.3%

¹ACE VII has the following commitments within the Abbott Select Venture Fund, L.P.: Meritech Capital Partners V, Pelion Ventures VI, Storm Ventures Fund V, Venrock Associates VII, GGV Discovery I, Level Equity Growth Partners III, Global Venture Capital IV, and Versant Venture Capital VI. **Past performance is not a guide to future results and is not indicative of expected realized returns.** No assurances can be given that cash flows will continue at this level in the future or that the underlying portfolio funds will make any further distributions. Strategy IRR and TVPI are shown gross of fees charged by Abbott. See Important Information pages at the back of this document and Abbott's Form ADV Part 2A for disclosures on risk and performance.

ACE VII: Statement of Investments

As of 6/30/2020

Buyouts and Special Situations (Primary Investments)	Vintage Year	Commitment	Amount Paid-in	Distributions	Valuation	Total Value	TVPI	IRR
Abbott Select Buyouts Fund III, L.P.	2014	\$27,000,000	\$21,771,661	\$6,075,000	\$22,569,510	\$28,644,510	1.3x	
GTCR Fund XI	2014	\$15,000,000	\$13,468,758	\$12,629,673	\$14,620,076	\$27,249,749	2.0x	
Trident VI (Stone Point)	2014	\$15,000,000	\$15,152,563	\$13,682,753	\$14,357,608	\$28,040,361	1.9x	
CVC Capital Partners VI ¹	2014	\$13,155,751	\$13,576,311	\$6,752,683	\$12,935,129	\$19,687,812	1.5x	
Warburg Pincus Energy	2014	\$12,500,000	\$11,212,500	\$2,173,751	\$7,073,003	\$9,246,754	0.8x	
Energy Spectrum Partners VII	2014	\$6,000,000	\$5,684,413	\$2,524,794	\$3,001,505	\$5,526,299	1.0x	
Sentinel Capital Partners V	2014	\$3,900,000	\$4,023,308	\$2,300,941	\$3,899,861	\$6,200,802	1.5x	
EnCap Energy Capital Fund X	2015	\$10,000,000	\$9,176,836	\$1,964,735	\$6,323,226	\$8,287,962	0.9x	
ABRY Partners VIII	2015	\$5,000,000	\$5,151,812	\$3,295,176	\$3,211,320	\$6,506,496	1.3x	
Gilde Buyout Fund V ¹	2016	\$12,607,800	\$11,133,284	\$3,641,307	\$8,709,719	\$12,351,026	1.1x	
Advent International GPE VIII-B	2016	\$12,500,000	\$11,712,502	-	\$15,740,968	\$15,740,968	1.3x	
Hellman & Friedman Capital Partners VIII	2016	\$12,000,000	\$12,073,887	\$1,129,751	\$14,476,375	\$15,606,126	1.3x	
AEA Investors Fund VI	2016	\$8,100,000	\$7,585,863	-	\$9,117,895	\$9,117,895	1.2x	
Livingbridge 6 ¹	2016	\$4,281,668	\$3,326,671	\$58,224	\$3,245,181	\$3,303,406	1.0x	
Flexpoint Fund III	2016	\$4,000,000	\$3,332,760	-	\$4,044,223	\$4,044,223	1.2x	
Flexpoint Special Assets Fund	2016	\$1,300,000	\$831,720	\$248,817	\$723,454	\$972,271	1.2x	
Cinven Sixth Fund ¹	2017	\$6,257,174	\$4,883,193	\$170,692	\$5,438,187	\$5,608,878	1.1x	
Total Buyouts and Special Situations		\$168,602,393	\$154,098,041	\$56,648,296	\$149,487,240	\$206,135,536	1.3x	12.2%

¹Non-U.S. dollar denominated portfolio funds. Past performance is not a guide to future results and is not indicative of expected realized returns. No assurances can be given that cash flows will continue at this level in the future or that the underlying portfolio funds will make any further distributions. Strategy IRR and TVPI are shown gross of fees charged by Abbott. See Important Information pages at the back of this document and Abbott's Form ADV Part 2A for disclosures on risk and performance. See Important Information pages at the back of this document and Abbott's Form ADV Part 2A for disclosures on risk and performance and the definition of NM - primary fund investments.

ACE VII: Statement of Investments

As of 6/30/2020

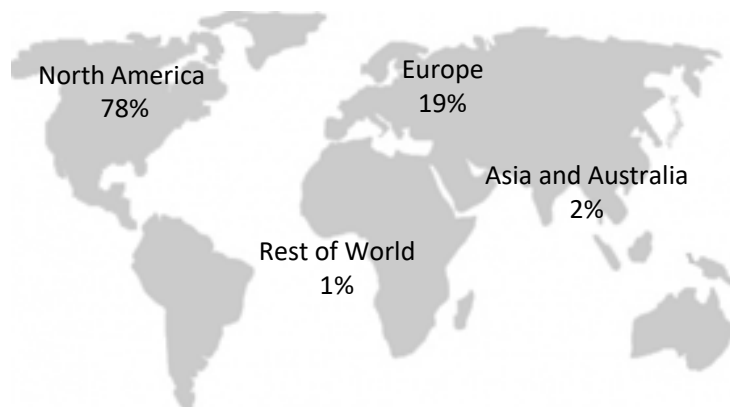
Secondary Interests	Investment Date	Invested Capital	Amount Paid-in	Distributions	Valuation	Total Value	TVPI	IRR
Project Madison	04/15/2014	\$3,011,672	\$2,882,033	\$6,060,842	\$938,259	\$6,999,101	2.4x	
Project Paris	09/30/2014	\$1,935,354	\$1,913,728	\$1,547,967	\$604,859	\$2,152,826	1.1x	
Project Ginger	01/01/2015	\$1,294,570	\$1,268,923	\$2,300,037	-	\$2,300,037	1.8x	
Project Rock	05/15/2015	\$4,737,568	\$5,137,484	\$4,852,348	\$1,578,203	\$6,430,551	1.3x	
Project Patent	07/29/2015	\$5,500,001	\$5,268,235	\$7,686,913	\$1,961,722	\$9,648,635	1.8x	
Project Salt	09/30/2015	\$1,944,252	\$1,862,096	\$2,090,965	\$3,568,355	\$5,659,320	3.0x	
Project Alto	10/30/2015	\$514,578	\$514,536	\$512,555	\$296,731	\$809,286	1.6x	
Project Rain	03/31/2016	\$2,409,548	\$2,029,488	\$3,222,476	\$3,820,617	\$7,043,093	3.5x	
Project Madison II	06/30/2016	\$5,965,048	\$5,138,691	\$6,965,629	\$2,367,205	\$9,332,834	1.8x	
Total Secondary Interests		\$27,312,591	\$26,015,214	\$35,239,733	\$15,135,951	\$50,375,685	1.9x	30.0%

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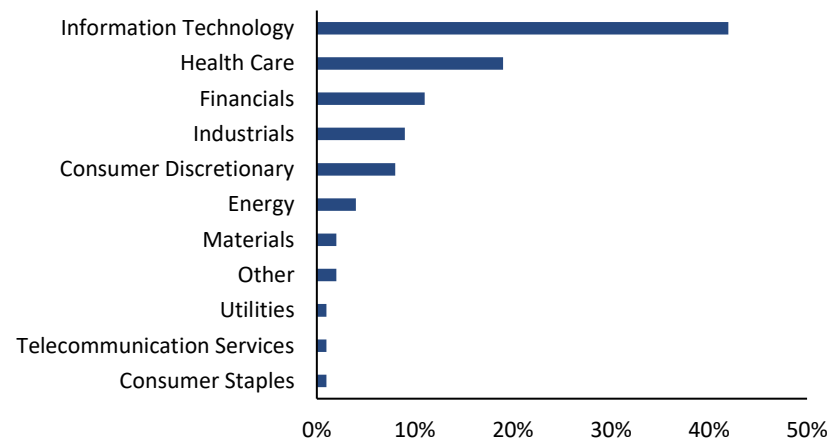
ACE VII: Portfolio Company Diversification

As of 6/30/2020

Geographic Diversification by Value



Industry Diversification by Value



Top Ten Portfolio Companies By Proportionate Value

Company Name	Portfolio Fund Name
Village Practice Management Company, LLC	Oak HC/FT Partners
GoodRx	Spectrum Equity Investors VII
CloudFlare, Inc. ¹	Pelion Ventures V, Pelion Ventures VI, Utah Ventures IV
Robinhood Markets, Inc.	New Enterprise Associates 15
Lucid Software	Spectrum Equity Investors VII
Sotera Health	GTCR Fund XI
Feedzai, SA	Oak HC/FT Partners
Definitive Healthcare Holdings, LLC	Spectrum Equity Investors VII
Alliant Insurance Services, Inc.	Trident VI (Stone Point)
Maravai Life Sciences	GTCR Fund XI
Total Top Ten Portfolio Companies	\$44.3M (13.0% of Total Proportionate Value)

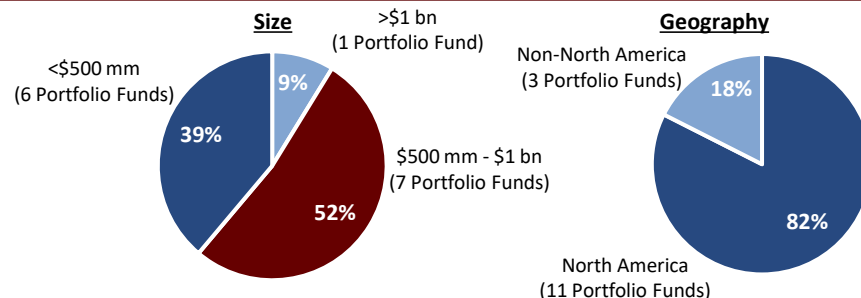
¹Denotes publicly traded company. Portfolio companies are not held directly by the Abbott Fund. Proportionate Value is an estimate only and is calculated based on the fund's share of the total capital committed by all investors of the relevant portfolio fund. [Diversification](#) will not guarantee profitability or protection against loss.

Abbott Select Buyouts III: Summary

As of 6/30/2020

- Final Close: January 22, 2015
- Fund Size: \$287.0 million
- Amount Committed: \$304.0 million (105.9% of Fund size)

Primary Fund Diversification | By Amount Committed



ACE VII Commitment	Vintage	Year	Total Commitment	Amount Paid-In	Total Distributions	Latest Valuation	Total Value	TVPI	IRR
Abbott Select Buyouts Fund III, L.P.	2014		\$27,000,000	\$21,771,661	\$6,075,000	\$22,569,510	\$28,644,510	1.3x ³	10.3% ³

Select Buyouts Fund III Portfolio Funds

Blue Sea Capital Fund I	2013	\$20,000,000	\$16,622,015	\$10,436,777	\$15,203,939	\$25,640,716	1.5x
Great Hill Equity Partners V	2014	\$25,000,000	\$25,033,308	\$25,000,000	\$27,673,288	\$52,673,288	2.1x
Ridgemont Equity Partners II	2015	\$25,000,000	\$22,871,352	\$9,357,275	\$24,306,252	\$33,663,527	1.5x
Livingbridge Enterprise 2 ¹	2015	\$21,126,235	\$19,206,250	\$1,058,693	\$16,667,938	\$17,726,631	0.9x
Cressey & Company V	2015	\$20,000,000	\$18,700,000	\$5,727,590	\$23,515,515	\$29,243,105	1.6x
MSouth Equity Partners III	2015	\$20,000,000	\$17,173,417	\$8,861,706	\$11,487,018	\$20,348,723	1.2x
ECI 10 ¹	2015	\$16,251,044	\$14,624,501	\$3,714,970	\$11,720,370	\$15,435,340	1.1x
JZI Fund III ¹	2015	\$12,656,666	\$10,464,158	\$3,104,993	\$10,347,722	\$13,452,715	1.3x
Tengram Capital Partners Fund II	2015	\$7,000,000	\$5,548,426	\$108,541	\$4,890,733	\$4,999,274	0.9x
Mason Wells Buyout Fund IV	2016	\$25,000,000	\$22,226,138	\$0	\$24,050,084	\$24,050,084	1.1x
Prairie Capital VI	2016	\$25,000,000	\$17,500,000	\$0	\$18,644,657	\$18,644,657	1.1x
Saw Mill Capital Partners II	2016	\$25,000,000	\$13,820,145	\$1,006,090	\$13,558,135	\$14,564,225	1.1x
ABRY Heritage Partners	2016	\$18,000,000	\$9,539,832	\$4,778,007	\$6,763,101	\$11,541,108	1.2x
Halifax Capital Partners IV	2018	\$25,000,000	\$13,817,737	\$0	\$13,098,993	\$13,098,993	0.9x
Project Rock	5/15/2015 ²	\$18,953,325	\$20,553,245	\$19,412,517	\$6,313,828	\$25,726,345	1.3x

¹Non-US dollar denominated portfolio fund. ²The secondary interest is comprised of multiple limited partnership interests with various vintage years, therefore investment date is shown. ³ASB III IRR and TVPI are shown net of expenses payable by ASB III but gross of management fee, carried interest or expenses payable by ACE VII. Abbott does not receive a double management fee or carry. No assurances can be given that cash flows will continue at this level in the future or that the underlying portfolio funds or investments will make any further distributions. **Past performance is not a guide to future results and is not indicative of expected realized returns.** Diversification will not guarantee profitability or protection against loss. IRR and TVPI are shown gross of fees charged by Abbott. See Important Information pages at the back of this document and Abbott's Form ADV Part 2A for disclosures on risk and performance and the definition of NM - primary fund investments.

AP 2016: Summary

As of 6/30/2020

Fund Summary and Metrics

Final Close Date	June 30, 2016
Vintage Year	2016
Fund Size (\$M)	\$149.1
Amount Committed (\$M)	\$161.1
<i>As a % of Fund Size</i>	<i>108.1%</i>
Amount Contributed (\$M)	\$99.5
<i>As a % of Fund Size</i>	<i>66.7%</i>
Amount Distributed (\$M)	\$8.5

LP Metrics

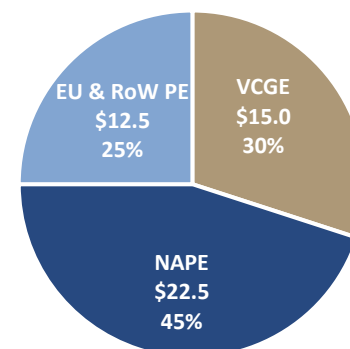
Commitment (\$M)	\$50.0
Amount Contributed (\$M)	\$33.4
<i>As a % of LP Commitment</i>	<i>66.8%</i>
Amount Distributed (\$M)	\$2.8
<i>As a % of LP Contributions</i>	<i>8.4%</i>
Latest Valuation (\$M)	\$37.0
Total Value (\$M)	\$39.8
Net IRR	11.7%
Net DPI	0.1x
Net TVPI	1.2x

AP 2016 Fund Highlights

- AP 2016 has completed its investment phase and the underlying partnerships are generally in the investment and early value creation phases
- The Fund was approximately 67% paid-in as of Q2 and has distributed \$8.5 million, or approximately 8.5% of contributed capital
- Early performance has been similar across the various strategies to date, with nine secondaries having generated over 50% of the Fund's distributions through 1H 2020

Marin County Employees Retirement Association Allocation (\$M)

\$50.0 million Commitment



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AP 2016: Strategy Summary

As of 6/30/2020

Strategy Summary	VCGE	NAPE	EU & RoW PE ¹	Secondaries
Strategy Size (\$M)	\$40.2	\$67.9	\$41.1	-
No. of Investments	23	14	9	9
Vintage Years of Primary Investments	2016-2019	2016-2019	2016-2019	NA
Commitments (\$M)	\$40.0	\$67.8	\$39.2	\$14.1
Amount Paid-in (\$M)	\$26.7	\$38.8	\$21.0	\$13.0
<i>as a % of Commitments</i>	66.7%	57.3%	53.6%	92.0%
Distributions (\$M)	\$1.0	\$5.7	\$0.7	\$6.9
Valuation (\$M)	\$33.1	\$40.6	\$22.4	\$11.4
Total Value (Valuation + Distributions) (\$M)	\$34.1	\$46.3	\$23.1	\$18.3
Strategy IRR	18.2%	14.3%	6.2%	19.7%
Strategy TVPI	1.3x	1.2x	1.1x	1.4x
Strategy DPI	0.0x	0.1x	0.0x	0.5x

¹Europe & RoW Private Equity (EU & RoW PE) was formerly referred to as Ex-North America Private Equity (XNAPE). All amounts in millions. Information shown at the Abbott Fund level. **Past performance is not a guide to future results and is not indicative of expected realized returns.** Strategy IRR, TVPI, and DPI are shown gross of management fee charged by Abbott, Abbott fund expenses, and carried interest if applicable. An individual investor's returns will differ from these due to varying limited partner closing dates, management fee, strategy allocation, and commitment amounts. Diversification will not guarantee profitability or protection against loss. See Important Information pages at the back of this document and Abbott's Form ADV Part 2A for disclosures on risk and performance and the definition of NM - primary fund investments.

AP 2016: Statement of Investments

As of 6/30/2020

Venture Capital and Growth Equity (Primary Investments)	Vintage Year	Commitment	Amount Paid-in	Distributions	Valuation	Total Value	TVPI	IRR
Longitude Venture Partners III	2016	\$1,525,000	\$1,206,947	\$66,589	\$1,480,675	\$1,547,264	1.3x	
Battery Ventures XI	2016	\$1,350,000	\$1,104,300	\$230,686	\$2,100,431	\$2,331,117	2.1x	
Lightspeed Venture Partners Select II	2016	\$700,000	\$658,000	\$243,429	\$866,863	\$1,110,292	1.7x	
Lightspeed Venture Partners XI	2016	\$700,000	\$532,000	\$60,406	\$596,854	\$657,260	1.2x	
GGV Discovery I	2016	\$650,000	\$585,000	\$3,828	\$826,062	\$829,890	1.4x	
Battery Ventures XI Side Fund	2016	\$600,000	\$561,300	\$72,140	\$1,260,776	\$1,332,916	2.4x	
GGV Capital VI	2016	\$600,000	\$558,000	\$0	\$792,250	\$792,250	1.4x	
Sofinnova Venture Partners X	2017	\$4,000,000	\$1,680,000	\$125,632	\$2,815,224	\$2,940,856	1.8x	
New Enterprise Associates 16	2017	\$3,500,000	\$2,537,500	\$62,682	\$2,983,439	\$3,046,121	1.2x	
Oak HC/FT Partners II	2017	\$3,500,000	\$2,525,600	\$0	\$3,595,025	\$3,595,025	1.4x	
Canaan XI	2018	\$3,500,000	\$2,012,500	\$0	\$2,483,670	\$2,483,670	1.2x	
Spectrum Equity Investors VIII	2018	\$3,325,000	\$2,917,688	\$0	\$2,702,166	\$2,702,166	0.9x	
G 2018	2018	\$3,000,000	\$1,166,864	\$0	\$978,330	\$978,330	0.8x	
H 2018	2018	\$2,375,000	\$1,543,750	\$0	\$1,713,207	\$1,713,207	1.1x	
CRV XVII	2018	\$2,275,000	\$1,461,691	\$138,704	\$1,688,555	\$1,827,259	1.3x	
Battery Ventures XII	2018	\$2,100,000	\$1,624,980	\$0	\$1,816,021	\$1,816,021	1.1x	
X 2018b	2018	\$1,875,000	\$1,408,187	\$0	\$1,491,029	\$1,491,029	1.1x	
Level Equity Growth Partners IV	2018	\$1,700,000	\$695,243	\$0	\$675,438	\$675,438	1.0x	
Battery Ventures XII Side Fund	2018	\$1,150,000	\$929,315	\$0	\$1,140,950	\$1,140,950	1.2x	
X 2018a	2018	\$925,000	\$613,117	\$0	\$644,823	\$644,823	1.1x	
Level Equity Opportunities Fund 2018	2018	\$300,000	\$82,854	\$0	\$96,708	\$96,708	1.2x	
GGV Capital VI Plus	2018	\$200,000	\$153,000	\$0	\$157,601	\$157,601	1.0x	
Spectrum Discretionary Overage Program I-A	2019	\$175,000	\$153,692	\$0	\$148,378	\$148,378	1.0x	
Total Venture Capital and Growth Equity		\$40,025,000	\$26,711,527	\$1,004,095	\$33,054,475	\$34,058,570	1.3x	18.2%

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AP 2016: Statement of Investments

As of 6/30/2020

North America Private Equity (Primary Investments)	Vintage Year	Commitment	Amount Paid-in	Distributions	Valuation	Total Value	TVPI	IRR
Madison Dearborn Capital Partners VII	2016	\$7,000,000	\$6,359,885	\$650,863	\$6,788,845	\$7,439,708	1.2x	
Berkshire Fund IX	2016	\$4,500,000	\$2,741,782	\$432,221	\$2,685,425	\$3,117,646	1.1x	
Harvest Partners VII	2016	\$4,500,000	\$4,346,928	\$85,293	\$4,941,789	\$5,027,082	1.2x	
ABRY Senior Equity V	2016	\$2,950,000	\$1,700,915	\$296,443	\$1,577,377	\$1,873,820	1.1x	
EnCap Energy Capital Fund XI	2017	\$7,000,000	\$2,110,434	\$0	\$1,252,592	\$1,252,592	0.6x	
Great Hill Equity Partners VI	2017	\$7,000,000	\$5,570,600	\$1,986,287	\$6,154,444	\$8,140,731	1.5x	
The Resolute Fund IV	2018	\$7,000,000	\$4,164,624	\$765,321	\$5,075,092	\$5,840,413	1.4x	
GTCR Fund XII	2018	\$5,750,000	\$2,647,875	\$112,320	\$3,042,637	\$3,154,957	1.2x	
Clayton, Dubilier & Rice Fund X	2018	\$3,500,000	\$2,208,104	\$725,988	\$1,995,667	\$2,721,655	1.2x	
Halifax Capital Partners IV	2018	\$3,200,000	\$1,768,669	\$0	\$1,676,671	\$1,676,671	0.9x	
Clearlake Capital Partners V	2018	\$2,275,000	\$2,095,071	\$639,671	\$2,527,554	\$3,167,225	1.5x	
Hellman & Friedman Capital Partners IX	2019	\$6,900,000	\$1,533,831	\$0	\$1,456,096	\$1,456,096	0.9x	
Riverside Micro-Cap Fund V	2019	\$4,400,000	\$1,098,977	\$0	\$938,926	\$938,926	0.9x	
Sentinel Capital Partners VI	2019	\$1,775,000	\$448,616	\$2,209	\$473,969	\$476,178	1.1x	
Total North America Private Equity		\$67,750,000	\$38,796,310	\$5,696,617	\$40,587,085	\$46,283,701	1.2x	14.3%

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AP 2016: Statement of Investments

As of 6/30/2020

Europe & RoW Private Equity (Primary Investments)	Vintage Year	Commitment	Amount Paid-in	Distributions	Valuation	Total Value	TVPI	IRR
Warburg Pincus China	2016	\$3,750,000	\$3,390,000	\$485,419	\$4,289,490	\$4,774,909	1.4x	
Livingbridge 6 ¹	2016	\$3,651,637	\$2,840,248	\$50,186	\$2,757,185	\$2,807,371	1.0x	
Advent International GPE VIII-B	2016	\$3,250,000	\$3,045,251	-	\$4,092,652	\$4,092,652	1.3x	
Chequers Capital XVII ¹	2017	\$5,167,748	\$2,081,935	-	\$1,231,611	\$1,231,611	0.6x	
Vitruvian Investment Partnership III ¹	2017	\$4,695,009	\$2,795,405	-	\$3,332,324	\$3,332,324	1.2x	
Cinven Sixth Fund ¹	2017	\$3,309,769	\$2,585,306	\$89,804	\$2,867,399	\$2,957,203	1.1x	
CVC Capital Partners VII ¹	2018	\$5,413,735	\$2,695,404	\$32,990	\$2,890,865	\$2,923,855	1.1x	
PAI Europe VII ¹	2019	\$4,995,084	\$1,074,995	-	\$623,999	\$623,999	0.6x	
Egeria Private Equity Fund V SCSp ¹	2019	\$4,991,046	\$524,367	-	\$314,766	\$314,766	0.6x	
Total Europe & RoW Private Equity		\$39,224,028	\$21,032,911	\$658,398	\$22,400,292	\$23,058,690	1.1x	6.2%

¹Non-US dollar denominated portfolio fund. **Past performance is not a guide to future results and is not indicative of expected realized returns.** No assurances can be given that cash flows will continue at this level in the future or that the underlying portfolio funds will make any further distributions. TVPI is shown gross of fees charged by Abbott. See Important Information pages at the back of this document and Abbott's Form ADV Part 2A for disclosures on risk and performance and the definition of NM - primary fund investments.

AP 2016: Statement of Investments

As of 6/30/2020

Secondary Interests	Investment Date	Invested Capital	Amount Paid-in	Distributions	Valuation	Total Value	TVPI	IRR
Project Madison II	06/30/2016	\$3,081,942	\$2,654,986	\$3,598,869	\$1,223,053	\$4,821,922	1.8x	
Project WP	07/01/2016	\$335,920	\$321,517	\$216,971	\$268,329	\$485,300	1.5x	
Project Salt II	11/08/2016	\$1,000,001	\$989,023	\$1,312,312	\$2,133,812	\$3,446,124	3.5x	
Project East	09/29/2017	\$3,003,870	\$3,003,870	\$682,800	\$1,995,690	\$2,678,490	0.9x	
Project Catamaran ¹	01/31/2018	\$507,774	\$483,184	\$284,407	\$491,163	\$775,570	1.6x	
Project Fuel	06/22/2018	\$3,000,000	\$2,987,435	\$1,859	\$2,450,735	\$2,452,594	0.8x	
Project Enterprise	09/07/2018	\$700,775	\$685,300	\$112,573	\$752,154	\$864,727	1.3x	
Project Bruin	12/21/2018	\$1,875,429	\$1,471,804	\$688,491	\$1,575,582	\$2,264,073	1.5x	
Project Steelers	12/31/2018	\$637,980	\$412,980	\$0	\$463,725	\$463,725	1.1x	
Total Secondary Interests		\$14,143,691	\$13,010,100	\$6,898,282	\$11,354,243	\$18,252,525	1.4x	19.7%

¹Non-US dollar denominated portfolio investment. Past performance is not a guide to future results and is not indicative of expected realized returns. No assurances can be given that cash flows will continue at this level in the future or that the underlying portfolio investments will make any further distributions. Strategy IRR and TVPI are shown gross of management fee charged by Abbott, Abbott fund expenses, and carried interest if applicable. See Important Information pages at the back of this document and Abbott's Form ADV Part 2A for disclosures on risk and performance.

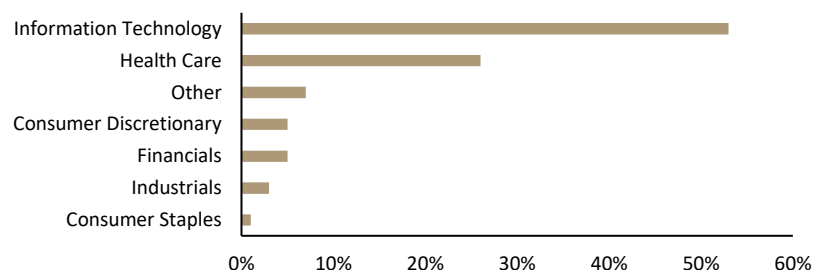
AP 2016: Portfolio Company Diversification

As of 6/30/2020

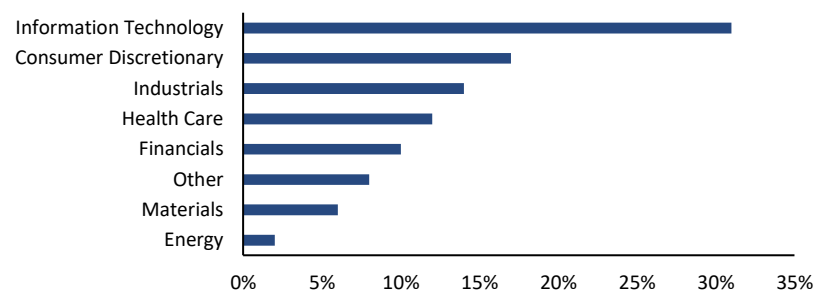
Portfolio Company Metrics	VCGE	NAPE	EU & RoW PE ¹	Secondaries
Number of Active Portfolio Companies	616	172	157	110
Number of Overlap Investments	98	0	1	2
Total Number of Active Portfolio Company Investments	714	172	158	112
Average Age of Investments (Years)	2.0	1.6	1.8	4.2

Industry Diversification by Proportionate Value

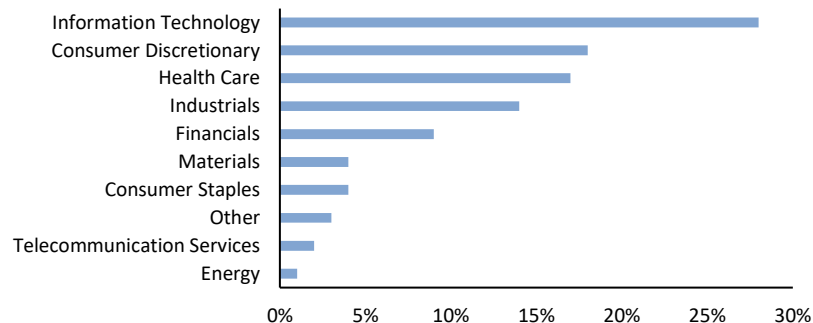
VCGE



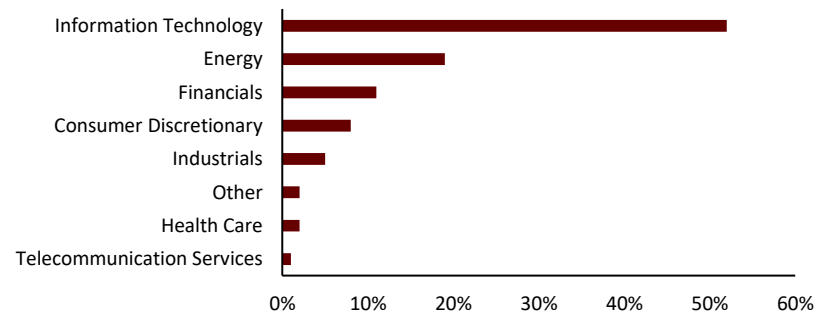
NAPE



EU & RoW PE



Secondaries



¹Europe & RoW Private Equity (EU & RoW PE) was formerly referred to as Ex-North America Private Equity (XNAPE). Total number of active portfolio company investments may reflect investments that are a part of multiple strategies. The Abbott Fund's proportionate share of the fair value of underlying portfolio companies is based on the Abbott Fund's ownership percentage of the portfolio fund. Diversification will not guarantee profitability or protection against loss.

AP 2017: Summary

As of 6/30/2020

Fund Summary and Metrics

Final Close Date	June 30, 2017
Vintage Year	2017
Fund Size (\$M)	\$407.2
Amount Committed (\$M)	\$433.6
<i>As a % of Fund Size</i>	106.5%
Amount Contributed (\$M)	\$127.8
<i>As a % of Fund Size</i>	31.4%
Amount Distributed (\$M)	\$0.1

LP Metrics

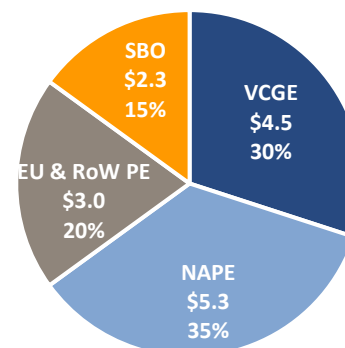
Commitment (\$M)	\$15.0
Amount Contributed (\$M)	\$6.6
<i>As a % of LP Commitment</i>	44.3%
Amount Distributed (\$M)	\$0.0
<i>As a % of LP Contributions</i>	0.0%
Latest Valuation (\$M)	\$7.8
Total Value (\$M)	\$7.8
Net IRR	12.0%
Net DPI	0.0x
Net TVPI	1.2x

AP 2017 Fund Highlights

- AP 2017 is fully committed and the portfolio is in the deployment phase
- Early unrealized performance of the 11 secondary investments has helped mitigate the Fund's j-curve (10% net IRR as of Q2)
- 89% of distributions from underlying investments are from the Fund's secondary investments

Marin County Employees Retirement Association Allocation (\$M)

\$15.0 million Commitment



Numbers may not sum due to rounding. Diversification will not guarantee profitability or protection against loss. Past performance is not a guide to future results and is not indicative of expected realized returns. See Important Information pages at the back of this document and Abbott's Form ADV Part 2A for disclosures on risk and performance and the definition of NM - Abbott funds.

AP 2017: Strategy Summary

As of 6/30/2020

Strategy Summary	VCGE	NAPE	EU & RoW PE ¹	SBO	Secondaries
Strategy Size (\$M)	\$12.4	\$64.6	\$33.4	\$296.8	-
No. of Investments	17	12	10	14	11
Vintage Years of Primary Investments	2017-2019	2017-2020	2017-2019	2017-2020	NA
Commitments (\$M)	\$12.4	\$62.8	\$31.4	\$285.9	\$41.1
Amount Paid-in (\$M)	\$7.1	\$24.9	\$8.0	\$54.3	\$37.2
<i>as a % of Commitments</i>	56.8%	39.7%	25.5%	19.0%	90.5%
Distributions (\$M)	\$0.1	\$1.3	\$0.0	\$0.0	\$11.2
Valuation (\$M)	\$7.9	\$29.2	\$7.4	\$55.4	\$42.8
Total Value (Valuation + Distributions) (\$M)	\$7.9	\$30.5	\$7.4	\$55.4	\$54.0
Strategy IRR	11.3%	22.3%	-8.7%	2.0%	23.7%
Strategy TVPI	1.1x	1.2x	0.9x	1.0x	1.5x
Strategy DPI	0.0x	0.1x	0.0x	0.0x	0.3x

¹Europe & RoW Private Equity (EU & RoW PE) was formerly referred to as Ex-North America Private Equity (XNAPE). All amounts in millions. Information shown at the Abbott Fund level. **Past performance is not a guide to future results and is not indicative of expected realized returns.** Strategy IRR, TVPI, and DPI are shown gross of management fee charged by Abbott, Abbott fund expenses, and carried interest if applicable. An individual investor's returns will differ from these due to varying limited partner closing dates, management fee, strategy allocation, and commitment amounts. Diversification will not guarantee profitability or protection against loss. See Important Information pages at the back of this document and Abbott's Form ADV Part 2A for disclosures on risk and performance and the definition of NM - primary fund investments.

AP 2017: Statement of Investments

As of 6/30/2020

Venture Capital and Growth Equity (Primary Investments)	Vintage Year	Commitment	Amount Paid-in	Distributions	Valuation	Total Value	TVPI	IRR
New Enterprise Associates 16	2017	\$1,000,000	\$725,000	\$17,909	\$852,412	\$870,321	1.2x	
Oak HC/FT Partners II	2017	\$750,000	\$541,201	\$0	\$770,365	\$770,365	1.4x	
Canaan XI	2018	\$1,200,000	\$690,000	\$0	\$851,545	\$851,545	1.2x	
Spectrum Equity Investors VIII	2018	\$1,125,000	\$987,188	\$0	\$914,266	\$914,266	0.9x	
H 2018	2018	\$800,000	\$520,000	\$0	\$577,080	\$577,080	1.1x	
CRV XVII	2018	\$775,000	\$497,941	\$47,196	\$575,278	\$622,474	1.3x	
Battery Ventures XII	2018	\$750,000	\$580,350	\$0	\$648,580	\$648,580	1.1x	
X 2018b	2018	\$650,000	\$488,171	\$0	\$516,889	\$516,889	1.1x	
Battery Ventures XII Side Fund	2018	\$400,000	\$323,240	\$0	\$396,853	\$396,853	1.2x	
X 2018a	2018	\$325,000	\$215,420	\$0	\$226,560	\$226,560	1.1x	
Longitude Venture Partners IV	2019	\$1,300,000	\$183,025	\$0	\$184,396	\$184,396	1.0x	
B 2018	2019	\$1,200,000	\$720,000	\$0	\$784,127	\$784,127	1.1x	
e.ventures US VI	2019	\$1,200,000	\$129,696	\$0	\$103,550	\$103,550	0.8x	
GGV Capital VII	2019	\$640,000	\$281,600	\$0	\$280,653	\$280,653	1.0x	
GGV Capital VII Plus	2019	\$160,000	\$86,400	\$0	\$90,394	\$90,394	1.0x	
GGV Discovery II	2019	\$100,000	\$40,000	\$0	\$43,104	\$43,104	1.1x	
Spectrum Discretionary Overage Program I-A	2019	\$50,000	\$43,912	\$0	\$42,393	\$42,393	1.0x	
Total Venture Capital and Growth Equity		\$12,425,000	\$7,053,143	\$65,105	\$7,858,445	\$7,923,550	1.1x	11.3%

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AP 2017: Statement of Investments

As of 6/30/2020

North America Private Equity (Primary Investments)	Vintage Year	Commitment	Amount Paid-in	Distributions	Valuation	Total Value	TVPI	IRR
GTCR Fund XII	2017	\$8,500,000	\$3,914,250	\$166,038	\$4,497,808	\$4,663,846	1.2x	
Insight Venture Partners X	2018	\$8,500,000	\$7,973,000	\$2,911	\$10,398,350	\$10,401,261	1.3x	
Clearlake Capital Partners V	2018	\$3,375,000	\$3,108,072	\$948,962	\$3,749,671	\$4,698,633	1.5x	
Charlesbank Equity Fund IX	2018	\$2,100,000	\$896,644	\$33,719	\$946,538	\$980,257	1.1x	
CB OP Aggregator I	2018	\$1,600,000	\$881,329	\$0	\$1,249,476	\$1,249,476	1.4x	
Ridgemont Equity Partners III	2019	\$8,500,000	\$2,111,723	\$0	\$1,868,620	\$1,868,620	0.9x	
Hellman & Friedman Capital Partners IX	2019	\$8,400,000	\$1,867,271	\$0	\$1,772,638	\$1,772,638	0.9x	
Genstar Capital Partners IX	2019	\$6,400,000	\$1,575,173	\$125,460	\$1,608,352	\$1,733,812	1.1x	
ABRY Partners IX	2019	\$3,200,000	\$1,297,178	\$0	\$1,070,885	\$1,070,885	0.8x	
Sentinel Capital Partners VI	2019	\$2,625,000	\$663,444	\$3,266	\$700,940	\$704,206	1.1x	
Genstar Capital Partners IX Opportunities Program	2019	\$2,100,000	\$631,273	\$0	\$683,555	\$683,555	1.1x	
Great Hill Equity Partners VII	2020	\$7,500,000	\$0	\$0	\$665,822	\$665,822	-	
Total North America Private Equity		\$62,800,000	\$24,919,357	\$1,280,357	\$29,212,656	\$30,493,013	1.2x	22.3%

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AP 2017: Statement of Investments

As of 6/30/2020

Europe & RoW Private Equity (Primary Investments)	Vintage Year	Commitment	Amount Paid-in	Distributions	Valuation	Total Value	TVPI	IRR
Vitruvian Investment Partnership III ¹	2017	\$3,758,746	\$2,237,020	\$0	\$2,669,442	\$2,669,442	1.2x	
Chequers Capital XVII ¹	2017	\$3,668,275	\$1,476,167	\$0	\$874,915	\$874,915	0.6x	
CVC Capital Partners VII ¹	2018	\$4,121,315	\$2,050,877	\$25,381	\$2,201,850	\$2,227,231	1.1x	
PAI Europe VII ¹	2019	\$3,814,986	\$819,862	\$0	\$476,763	\$476,763	0.6x	
Egeria Private Equity Fund V ¹	2019	\$3,814,009	\$401,266	\$0	\$240,496	\$240,496	0.6x	
Astorg VII ¹	2019	\$2,845,476	\$327,172	\$0	\$264,695	\$264,695	0.8x	
CapVest Equity Partners IV ¹	2019	\$2,474,384	\$0	\$0	(\$45,723)	(\$45,723)	-	
BlackFin Financial Services Fund III ¹	2019	\$2,305,084	\$91,635	\$0	\$43,657	\$43,657	0.5x	
Advent International GPE IX	2019	\$2,300,000	\$563,499	\$0	\$655,862	\$655,862	1.2x	
Gilde Buy-Out Fund VI ¹	2019	\$2,248,570	\$41,756	\$0	(\$31,767)	(\$31,767)	-0.8x	
Total Europe & RoW Private Equity		\$31,350,846	\$8,009,254	\$25,381	\$7,350,191	\$7,375,572	0.9x	-8.7%

¹Non-US dollar denominated portfolio fund. **Past performance is not a guide to future results and is not indicative of expected realized returns.** No assurances can be given that cash flows will continue at this level in the future or that the underlying portfolio funds will make any further distributions. Strategy IRR and TVPI are shown gross of management fee charged by Abbott, Abbott fund expenses, and carried interest if applicable. See Important Information pages at the back of this document and Abbott's Form ADV Part 2A for disclosures on risk and performance and the definition of NM - primary fund investments.

AP 2017: Statement of Investments

As of 6/30/2020

Small Buyouts (Primary Investments)	Vintage Year	Commitment	Amount Paid-in	Distributions	Valuation	Total Value	TVPI	IRR
Primus Capital Fund VIII	2017	\$25,000,000	\$16,859,417	\$0	\$17,431,033	\$17,431,033	1.0x	
RLH Investors IV	2017	\$25,000,000	\$8,898,427	\$414	\$8,985,466	\$8,985,880	1.0x	
Cressey & Company VI	2018	\$25,000,000	\$6,250,000	\$0	\$7,077,715	\$7,077,715	1.1x	
Trinity Hunt Partners Fund V	2018	\$25,000,000	\$8,211,854	\$620	\$11,485,871	\$11,486,491	1.4x	
M/C Partners VIII	2019	\$25,000,000	\$7,700,478	\$0	\$6,763,994	\$6,763,994	0.9x	
MSouth Equity Partners IV	2019	\$25,000,000	\$3,240,452	\$0	\$1,672,841	\$1,672,841	0.5x	
AEA Investors SBF Fund IV	2019	\$20,000,000	\$1,977,733	\$0	\$1,492,939	\$1,492,939	0.8x	
Charlesbank Technology Opportunities Fund	2019	\$20,000,000	\$436,945	\$0	\$759,373	\$759,373	1.7x	
Graycliff Private Equity Partners IV	2019	\$20,000,000	\$0	\$0	\$0	\$0	-	
Livingbridge Enterprise 3 ¹	2019	\$19,496,452	\$707,795	\$0	\$10,584	\$10,584	0.0x	
Sverica Capital Partners V-A	2019	\$17,800,000	\$0	\$0	-\$313,485	-\$313,485	-	
Mason Wells Buyout Fund V	2020	\$20,000,000	\$0	\$0	\$0	\$0	-	
Serent Capital IV	2020	\$10,500,000	\$0	\$0	\$0	\$0	-	
Priveq Investment VI (A) AB ¹	2020	\$8,103,415	\$0	\$0	\$0	\$0	-	
Total Small Buyouts		\$285,899,867	\$54,283,100	\$1,034	\$55,366,331	\$55,367,365	1.0x	2.0%

¹Non-US dollar denominated portfolio fund. Past performance is not a guide to future results and is not indicative of expected realized returns. No assurances can be given that cash flows will continue at this level in the future or that the underlying portfolio funds will make any further distributions. Strategy IRR and TVPI are shown gross of management fee charged by Abbott, Abbott fund expenses, and carried interest if applicable. See Important Information pages at the back of this document and Abbott's Form ADV Part 2A for disclosures on risk and performance and the definition of NM - primary fund investments

AP 2017: Statement of Investments

As of 6/30/2020

Secondary Interests	Investment Date	Invested Capital	Amount Paid-in	Distributions	Valuation	Total Value	TVPI	IRR
Project East	09/29/2017	\$4,005,160	\$4,005,160	\$910,400	\$2,660,922	\$3,571,322	0.9x	
Project PF	10/13/2017	\$4,001,100	\$2,680,247	\$0	\$3,864,816	\$3,864,816	1.4x	
Project Catamaran ¹	01/31/2018	\$1,354,022	\$1,288,448	\$770,395	\$1,309,767	\$2,080,162	1.6x	
Project Fuel	06/22/2018	\$5,000,000	\$4,979,063	\$3,099	\$4,084,539	\$4,087,638	0.8x	
Project Mobile	08/16/2018	\$6,300,000	\$6,010,354	\$244,337	\$6,950,645	\$7,194,982	1.2x	
Project Network	08/29/2018	\$6,009,068	\$6,019,704	\$6,489,629	\$9,944,553	\$16,434,182	2.7x	
Project Enterprise	09/07/2018	\$1,701,883	\$1,664,299	\$273,390	\$1,826,666	\$2,100,056	1.3x	
Project Bruin	12/21/2018	\$4,501,029	\$3,532,330	\$1,652,379	\$3,781,396	\$5,433,776	1.5x	
Project Workflow	12/24/2018	\$2,691,988	\$2,441,336	\$0	\$2,760,992	\$2,760,992	1.1x	
Project Steelers	12/31/2018	\$1,531,153	\$991,153	\$0	\$1,112,942	\$1,112,942	1.1x	
Project Vision	05/30/2019	\$4,002,418	\$3,564,217	\$874,841	\$4,511,525	\$5,386,366	1.5x	
Total Secondary Interests		\$41,097,821	\$37,176,312	\$11,218,469	\$42,808,763	\$54,027,232	1.5x	23.7%

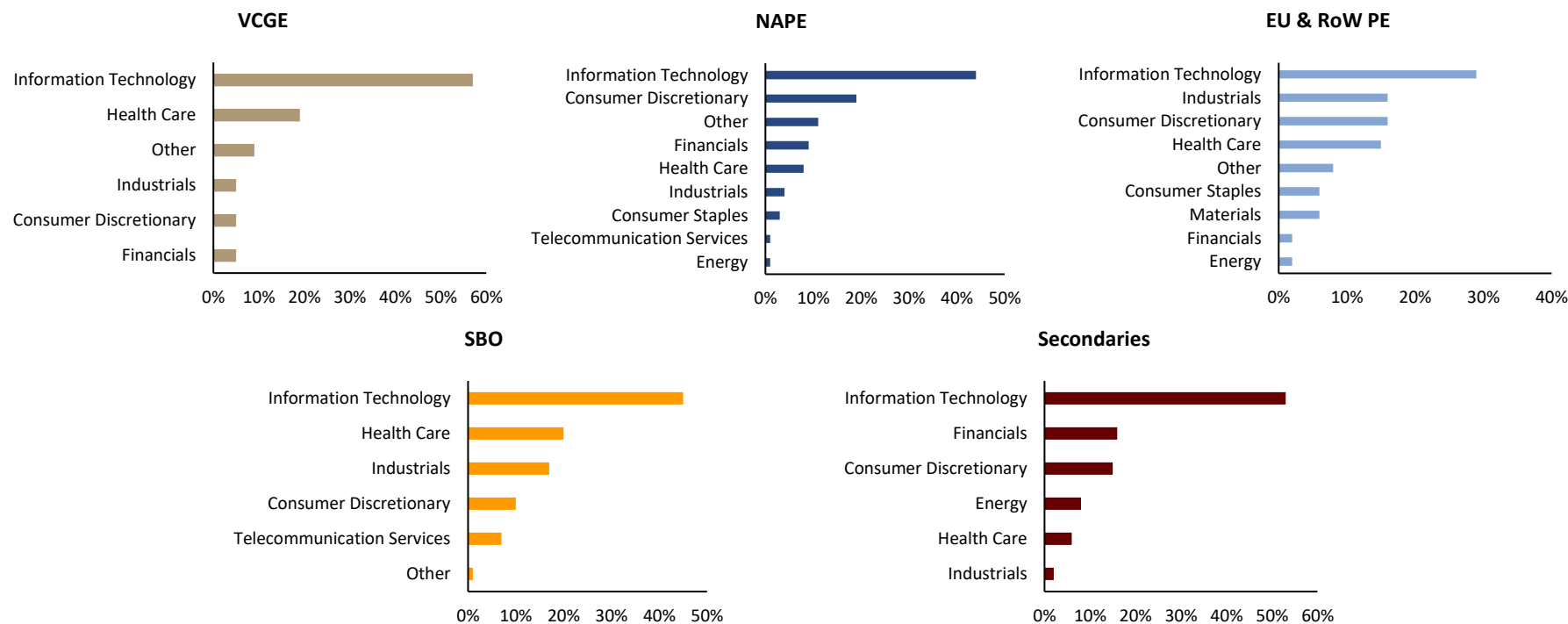
¹Non-US dollar denominated portfolio investment. Past performance is not a guide to future results and is not indicative of expected realized returns. No assurances can be given that cash flows will continue at this level in the future or that the underlying portfolio investments will make any further distributions. See Important Information pages at the back of this document and Abbott's Form ADV Part 2A for disclosures on risk and performance. Strategy IRR and TVPI are shown gross of management fee charged by Abbott, Abbott fund expenses, and carried interest if applicable.

AP 2017: Portfolio Company Diversification

As of 6/30/2020

Portfolio Company Metrics	VCGE	NAPE	EU & RoW PE ¹	SBO	Secondaries
Number of Active Portfolio Companies	440	164	83	41	76
Number of Overlap Investments	57	8	0	0	2
Total Number of Active Portfolio Company Investments	497	172	83	41	78
Average Age of Investments (Years)	1.3	1.3	1.1	1.1	4.2

Industry Diversification by Proportionate Value



¹Europe & RoW Private Equity (EU & RoW PE) was formerly referred to as Ex-North America Private Equity (XNAPE). Total number of active portfolio company investments may reflect investments that are a part of multiple strategies. The Abbott Fund's proportionate share of the fair value of underlying portfolio companies is based on the Abbott Fund's ownership percentage of the portfolio fund. Diversification will not guarantee profitability or protection against loss.

Abbott Capital Annual Program 2021

Annual Program: Objectives and Strategies

- **Annual Offering:** diversification across multiple vintage years, strategies, sectors, and geographies
- **Strategy Flexibility:** core or custom allocation
- **Opportunistic Strategies:** access to secondaries and co-investments
- **Portfolio Construction:** create high-conviction and performance-driven portfolios

Strategy	North America Private Equity (NAPE)	Europe Private Equity (EPE)	Small Buyouts (SBO)	Venture Capital & Growth Equity (VCGE)
Abbott's Strategy Allocation	30%	20%	20%	30%
Custom Allocation	0% - 100%	0% - 100%	0% - 100%	0% - 100%
Primary Commitments	~10	~10	~15	~15
Commitment Period	3 Years			
Opportunistic	Up to 20% of an investor's subscription will be allocated to Secondaries and Co-investments			

For investors seeking additional dedicated co-investment or secondary exposure, we offer:

Abbott Select Co-Investment Fund, L.P.

Abbott Secondary Opportunities II, L.P.

Final portfolio will vary from these expectations based on available opportunities.

North America Private Equity

As of 6/30/2020

Strategy Summary

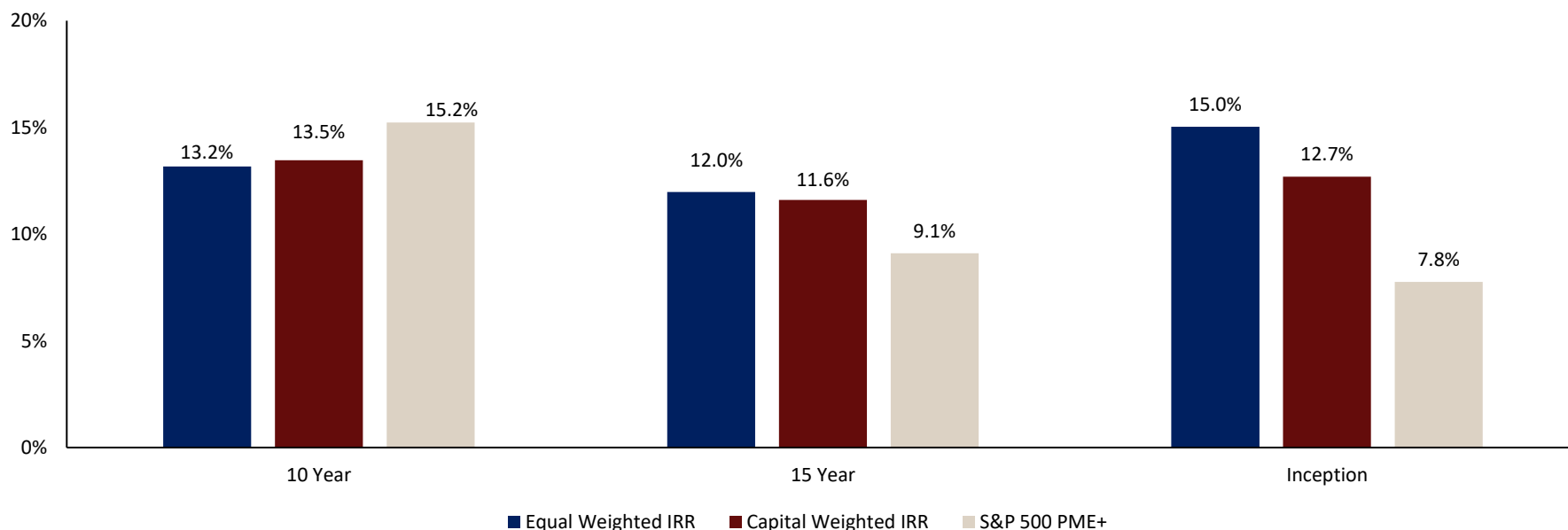
North America Private Equity (NAPE)

- Buyout and other control-focused funds
- Funds generally seeking to raise greater than \$750 million
- Broad diversification across fund sizes, business sectors, and investment styles

Highlights and Experience

- **1987:** Abbott's first commitment
- **\$6.7B:** total amount committed
- **140:** total number of fund commitments
- **39:** number of active advisory board seats
- **\$3.2B:** median fund size¹

NAPE Horizon Returns



¹Fund sizes based on commitments made between 7/1/2010 – 6/30/2020.

²Managers of funds relevant to this strategy and committed to by an Abbott Fund or more than one managed account between 1/1/2015 – 6/30/2020; excluding managers where an Abbott Fund or more than one managed account did not commit, or did not expect to commit, to the manager's most recent fund offering in that strategy. May exclude any Manager where Abbott's most recent investment with that Manager did not qualify as (NAPE). Does not necessarily represent managers that will be considered in the future. Strategy returns include managers not listed and those managers may have performed better or worse than those shown above. Final portfolio will vary from these expectations based on available opportunities. PME(+) presented uses actual (capital weighted) cash flows. **Past performance is not a guide to future results and is not indicative of expected realized returns.** See Important Information pages at the back of this document and Abbott's Form ADV Part 2A for disclosures on risk and impact of fees on performance. Diversification does not eliminate the risk of loss.

Europe Private Equity

As of 6/30/2020

Strategy Summary

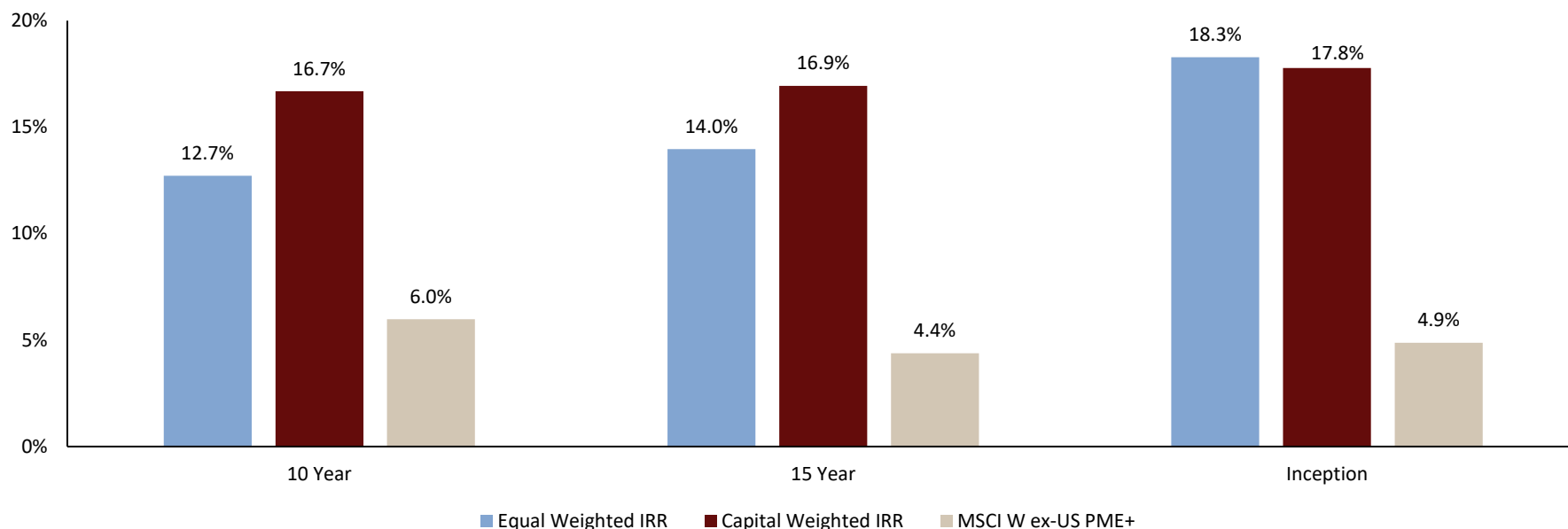
Europe Private Equity (EPE)

- Buyout and other control-focused funds outside of North America with a focus primarily on Western Europe
- Funds generally seeking to raise greater than \$750 million
- Broad diversification across fund sizes, business sectors, geographies, and investment styles

Highlights and Experience

- **1994:** Abbott's first commitment
- **\$2.3B:** total amount committed
- **46:** total number of fund commitments
- **12:** number of active advisory board seats
- **\$2.7B:** median fund size¹

Europe PE Horizon Returns



¹Fund sizes based on commitments made between 7/1/2010 – 6/30/2020.

²Managers of funds relevant to this strategy and committed to by an Abbott Fund or more than one managed account between 1/1/2015 – 6/30/2020; excluding managers where an Abbott Fund or more than one managed account did not commit, or did not expect to commit, to the manager's most recent fund offering in that strategy. May exclude any Manager where Abbott's most recent investment with that Manager did not qualify as (EPE). Does not necessarily represent managers that will be considered in the future. Strategy returns include managers not listed and those managers may have performed better or worse than those shown above. Final portfolio will vary from these expectations based on available opportunities. PME(+) presented uses actual (capital weighted) cash flows. **Past performance is not a guide to future results and is not indicative of expected realized returns.** See Important Information pages at the back of this document and Abbott's Form ADV Part 2A for disclosures on risk and impact of fees on performance. Diversification does not eliminate the risk of loss.

Small Buyouts

As of 6/30/2020

Strategy Summary

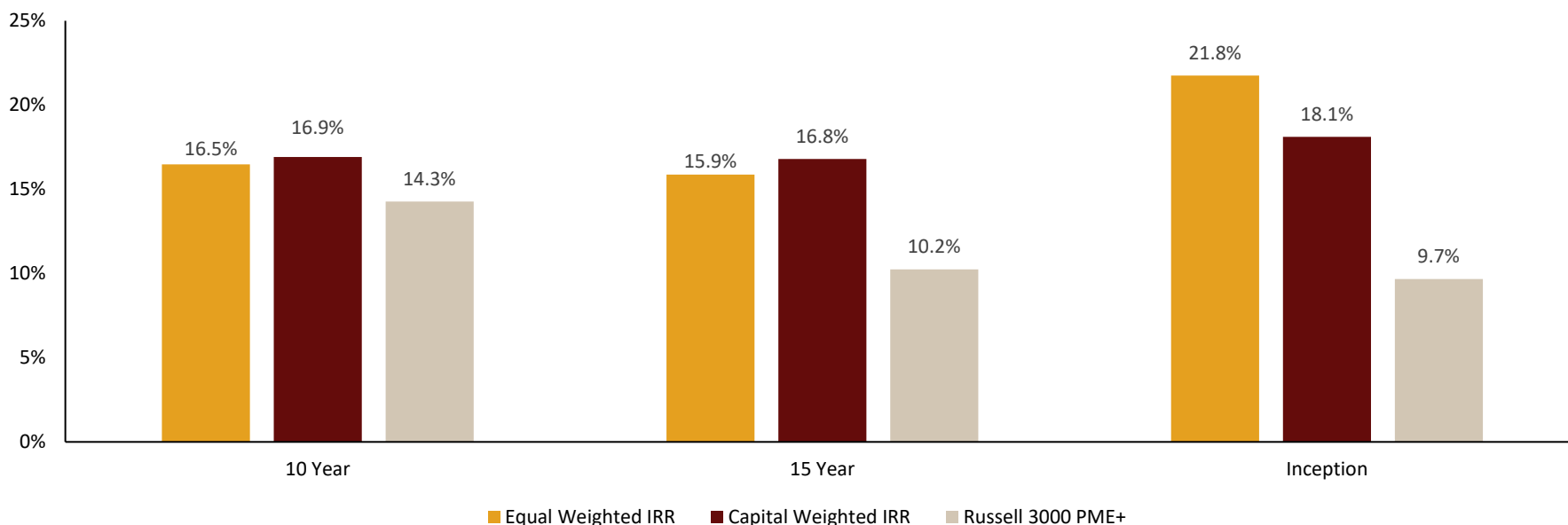
Small Buyouts (SBO)

- Buyout and control-oriented funds with a focus on North America
- Funds generally targeting to raise less than \$750 million
- Broad diversification across business sectors and investment styles

Highlights and Experience

- **1987**: Abbott's first commitment
- **\$1.7B**: total amount committed
- **82**: total number of fund commitments
- **31**: number of active advisory board seats
- **\$525M**: median fund size¹

SBO Horizon Returns



¹Fund sizes based on commitments made between 7/1/2010 – 6/30/2020.

²Managers of funds relevant to this strategy and committed to by an Abbott Fund or more than one managed account between 1/1/2015 – 6/30/2020; excluding managers where an Abbott Fund or more than one managed account did not commit, or did not expect to commit, to the manager's most recent fund offering in that strategy. May exclude any Manager where Abbott's most recent investment with that Manager did not qualify as (SBO). Does not necessarily represent managers that will be considered in the future. Strategy returns include managers not listed and those managers may have performed better or worse than those shown above. Final portfolio will vary from these expectations based on available opportunities. PME(+) presented uses actual (capital weighted) cash flows. **Past performance is not a guide to future results and is not indicative of expected realized returns.** See Important Information pages at the back of this document and Abbott's Form ADV Part 2A for disclosures on risk and impact of fees on performance. Diversification does not eliminate the risk of loss.

Venture Capital & Growth Equity

As of 6/30/2020

Strategy Summary

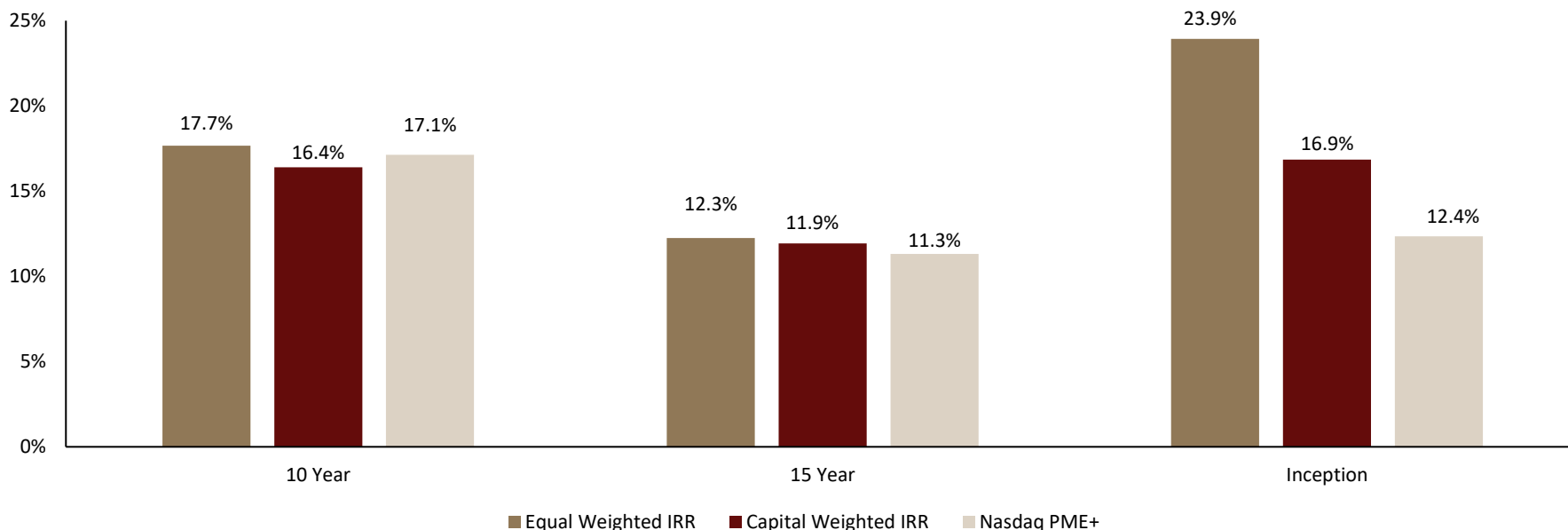
Venture Capital & Growth Equity (VCGE)

- Venture Capital and Growth Equity funds of all sizes and stages
- Funds pursuing sector-specific, regional or global strategies

Highlights and Experience

- **1987**: Abbott's first commitment
- **\$4.6B**: total amount committed
- **190**: total number of fund commitments
- **59**: number of active advisory board seats
- **\$583M**: median fund size¹

VCGE Horizon Returns



¹Fund sizes based on commitments made between 1/1/2010 – 6/30/2020.

²Managers of funds relevant to this strategy and committed to by an Abbott Fund or more than one managed account between 1/1/2015 – 6/30/2020; excluding managers where an Abbott Fund or more than one managed account did not commit, or did not expect to commit, to the manager's most recent fund offering in that strategy. May exclude any Manager where Abbott's most recent investment with that Manager did not qualify as (VCGE). Does not necessarily represent managers that will be considered in the future. Strategy returns include managers not listed and those managers may have performed better or worse than those shown above. Final portfolio will vary from these expectations based on available opportunities. PME(+) presented uses actual (capital weighted) cash flows. **Past performance is not a guide to future results and is not indicative of expected realized returns.** See Important Information pages at the back of this document and Abbott's Form ADV Part 2A for disclosures on risk and impact of fees on performance. Diversification does not eliminate the risk of loss.

Appendix: Supplemental Information

Team Biographies

Managing Directors



Jonathan D. Roth – Managing Director, President

Mr. Roth has more than 28 years of private equity investment experience and is responsible for the overall management of the firm. He also works closely with clients to develop and implement private equity investment programs. Mr. Roth reviews investment opportunities, with specific emphasis on the analysis and due diligence for prospective investments, and is engaged in the negotiation of business and legal issues, ongoing monitoring of investments and profit realization from distributed securities. Mr. Roth also serves on several partnership advisory boards. Prior to joining Abbott in 1992, Mr. Roth was an Associate at Elmrock Partners and a Financial Analyst with Amoco Corporation. Prior to obtaining his M.B.A., he worked for Chemical Bank as a corporate lending officer. Mr. Roth received his A.B. in Economics from Cornell University and his M.B.A. from The Fuqua School of Business at Duke University.



Timothy W. Maloney, CPA – Managing Director

Mr. Maloney has more than 19 years of private equity investment experience. He reviews investment opportunities, with specific emphasis on analysis and due diligence for prospective investments, and is engaged in the negotiation of business and legal issues, ongoing monitoring of investments and profit realization from distributed securities. Mr. Maloney also serves on several partnership advisory boards. Prior to joining Abbott in 2004, Mr. Maloney was an associate at Frye-Louis Capital Management in Chicago, working on screening and due diligence for venture capital, buyouts and special situations partnerships. Mr. Maloney also worked as a senior analyst at General American Transportation Corporation and at Hewitt Associates as a pension consultant. Mr. Maloney received his B.S. in Accounting from DePaul University, his M.B.A. in Finance from New York University and his C.P.A. from the State of Illinois.



Meredith L. Rerisi – Managing Director

Ms. Rerisi has more than 19 years of private equity investment experience. She reviews investment opportunities, with specific emphasis on analysis and due diligence for prospective investments, and is engaged in the negotiation of business and legal issues, ongoing monitoring of investments and profit realization from distributed securities. Ms. Rerisi also serves on several partnership advisory boards. Ms. Rerisi originally joined Abbott in 1998 and returned in the fall of 2002, following receipt of her M.B.A. Prior to joining Abbott, Ms. Rerisi was an equity analyst at American High Growth Equities Corporation. Ms. Rerisi received her B.S. in Applied Economics and Business Management from Cornell University and her M.B.A. from The Fuqua School of Business at Duke University.



Matthew M. Smith – Managing Director

Mr. Smith has more than 19 years of private equity investment experience. He is responsible for reviewing investment opportunities with specific emphasis on analysis and due diligence for prospective investments and is engaged in the negotiation of business and legal issues, ongoing monitoring of investments and profit realization from distributed securities. Mr. Smith, as Abbott's ESG Officer, is responsible for building upon the strong foundation Abbott has set in adopting the UN Principles for Responsible Investment and integrating ESG considerations into Abbott's investment process. Mr. Smith also serves on several partnership advisory boards. Prior to joining Abbott in 2000, he was a financial examiner at the Federal Reserve Bank of New York. He also worked for First Trust Washington and Bank of America as a trust officer. Mr. Smith received his A.B. in History and his M.B.A. in Finance from Georgetown University.

Team Biographies

Managing Directors



Leonard C. Pangburn – Managing Director

Mr. Pangburn has more than 15 years of private equity investment experience. He reviews investment opportunities, with specific emphasis on analysis and due diligence for prospective investments, and is engaged in the negotiation of business and legal issues, ongoing monitoring of investments and profit realization from distributed securities. Mr. Pangburn also serves on several partnership advisory boards. Prior to joining Abbott Capital in 2005, Mr. Pangburn was a supervisor of global operations at International Fund Services in New York, where he managed and reconciled all aspects of the global security database. Mr. Pangburn received his B.S. in Finance from Bentley University and his M.B.A. from New York University.



Young Lee, CFA – Managing Director

Mr. Lee has more than 15 years of private equity investment experience. He reviews investment opportunities, with specific emphasis on analysis and due diligence for prospective investments, and is engaged in the negotiation of business and legal issues, ongoing monitoring of investments and profit realization from distributed securities. Mr. Lee also serves on several partnership advisory boards. Prior to joining Abbott in 2007, Mr. Lee was an associate at The Henry J. Kaiser Family Foundation in Menlo Park, sourcing and leading due diligence on prospective private equity and hedge fund investments. Mr. Lee also worked as a product manager in the Online Business Services Division at Silicon Valley Bank and co-founded a company that matched university-based start-ups with angel investors. Mr. Lee received his B.A. in Economics from Stanford University, his M.B.A. from Columbia University and is a CFA® charterholder.



Kathryn J. Stokel, CFA – Managing Director, Chief Operating Officer

Ms. Stokel has more than 34 years of private equity investment experience and oversees the firm's internal operations and human resource activities. She reviews investment opportunities, with specific emphasis on analysis and due diligence for prospective investments, and is engaged in the negotiation of business and legal issues, ongoing monitoring of investments and profit realization from distributed securities. Ms. Stokel also serves on several partnership advisory boards. Prior to joining Abbott in 1998, Ms. Stokel was a Portfolio Manager of a \$3.5 billion private equity portfolio at General Motors Investment Management Corporation. Ms. Stokel received her B.S. in Mathematics from the University of Michigan, her M.B.A. in Finance from The Wharton School at the University of Pennsylvania and is a CFA® charterholder.

Team Biographies

Managing Directors



Lauren M. Massey, CPA – Managing Director, Chief Administrative Officer

Ms. Massey has more than 29 years of private equity experience. She oversees the firm’s fund investment recordkeeping activities, separate account reporting and the calculation of various performance analytics. Prior to joining Abbott in 1995, Ms. Massey was an Audit Manager in the Financial Services Division of Ernst & Young, where she had an asset management industry focus and was responsible for audit planning and management. Ms. Massey received her B.S. in Accounting from the State University of New York at Binghamton, her M.B.A. in Finance and Marketing from New York University, and her C.P.A. from the State of New York.



Paolo Parziale, CPA – Managing Director, Chief Financial Officer

Mr. Parziale has more than 20 years of private equity experience. He oversees the financial accounting and administration of all fund products, including the preparation of all fund financial reports and tax filings as well as Abbott’s corporate accounting function. Prior to joining Abbott in 2002, Mr. Parziale was an Audit Senior at Ernst & Young, where he worked on audits of investment management firms and various types of commingled funds. Mr. Parziale received his B.S. in Accounting from St. John’s University, his M.B.A. in Finance from New York University and his C.P.A. from the State of New York.



Mary T. Hornby – Managing Director, General Counsel

Ms. Hornby has more than 23 years of private equity experience. She assists the investment team in the review, legal analysis and negotiation of underlying fund investments and directs all legal aspects relating to the formation and maintenance of Abbott’s pooled investment funds. In addition, Ms. Hornby assists in the legal aspects of daily operations, including client relationships and contracts, regulatory compliance and internal corporate structuring matters. Prior to joining Abbott in 2004, Ms. Hornby was Counsel and a member of the Private Equity Group at Testa, Hurwitz & Thibault, LLP, representing investment advisers, funds of funds, public pension plans and other limited partner investors, as well as general partner groups, in all aspects of private equity fund formation. Ms. Hornby received her B.A., magna cum laude, from Boston College and her J.D. from Boston College Law School. She is a member of the Bar of the Commonwealth of Massachusetts.

Compliance



Monique Horton – Chief Compliance Officer

Ms. Horton is responsible for Abbott Capital’s compliance program. Prior to joining Abbott Capital in 2019, Ms. Horton worked at Invesco Private Capital, Inc., ACA Compliance Group, and Royalty Pharma. Ms. Horton received her B.A. in Government from Cornell University.

Team Biographies

Investments



Jobst Klemme – Director

Mr. Klemme has more than 21 years of private equity investment experience. He reviews investment opportunities with specific emphasis on analysis and due diligence for prospective investments. Mr. Klemme also serves on several partnership advisory boards. Mr. Klemme manages Abbott Capital (Europe), Ltd, Abbott's subsidiary which is authorized and regulated by the UK Financial Conduct Authority and located in London. Mr. Klemme worked for Bethmann Bank AG as Director in its Private Equity Solutions group. Prior to working at Bethmann Bank, he worked at Credit Suisse as Vice President, also in its Private Equity Solutions group. Mr. Klemme received his M.B.A from ESCP Europe and his Bachelor of Arts in Business Administration from Georg-August University Goettingen.



Jennie Benza – Principal

Ms. Benza has more than 11 years of private equity investment experience. She reviews investment opportunities with specific emphasis on analysis and due diligence for prospective investments, and is engaged in the negotiation of business and legal issues, ongoing monitoring of investments and profit realization from distributed securities. Ms. Benza also serves on several partnership advisory boards. Prior to joining Abbott in 2016, Ms. Benza was a Vice President with aPriori Capital Partners (DLJ Merchant Banking Partners). She also worked at Thomas H. Lee Partners and Merrill Lynch as a member of the M&A group. Ms. Benza received her B.S. in Finance & Accounting from New York University and her M.B.A. from the Harvard Business School.



Wolf Witt – Vice President

Mr. Witt reviews investment opportunities with specific emphasis on analysis and due diligence for prospective investments, with a particular focus on secondary transactions. Prior to joining Abbott in 2018, Mr. Witt was a Director at Zurich Alternative Asset Management ("ZAAM"), the in-house unit managing the alternative investments of Zurich Insurance Group. At ZAAM, Mr. Witt was part of the global private equity team responsible for primary fund investments, co-investments, and secondary investments. Prior to that, Mr. Witt worked at the economic consulting unit of Oliver Wyman (NERA) in the Frankfurt and New York offices. Mr. Witt received his M.A. from the University of St. Gallen (Switzerland). He also studied at HEC Business School (France) and received his M.S. from the CEMS program. Mr. Witt is a CFA charterholder.



Lance Zhou – Vice President

Mr. Zhou reviews investment opportunities with specific emphasis on analysis and due diligence for prospective investments, with a particular focus on secondary transactions. Prior to re-joining Abbott in 2019, Mr. Zhou was an Investment Director at Schroder Adveq Management, the private equity arm of Schroders. At Schroder Adveq, Mr. Zhou was part of the global private equity team where he was responsible for leading North American secondary investments. Before joining Schroder Adveq, Mr. Zhou worked at Abbott where he was initially on the fund administration team before migrating to investment management. Mr. Zhou started his career as a Financial Analyst at Citigroup. Mr. Zhou received his B.S. in Business Administration from State University of New York at Geneseo and earned his M.B.A from Columbia Business School. Mr. Zhou is a CAIA charterholder.

Team Biographies

Investments



Arianna Merrill – Vice President

Ms. Merrill reviews investment opportunities with specific emphasis on analysis and due diligence for prospective investments. Prior to joining Abbott Capital in 2018, Ms. Merrill worked at Partners Group where she made investments in private equity funds as well as co-investments, and Top Tier Capital Partners where she focused on investing in venture capital funds. Ms. Merrill received her B.A. in Economics and Political Science from Connecticut College and her M.B.A. from Cornell University.



Jonathan Tubiana – Vice President

Mr. Tubiana reviews investment opportunities with specific emphasis on analysis and due diligence for prospective investments. Prior to joining Abbott Capital in 2009, Mr. Tubiana was an Associate in the European investment team of Altius Associates where he was involved in European due diligence, portfolio analysis, and research activities. Mr. Tubiana received a Master of Science in Management from Grenoble Ecole de Management (France) and his M.B.A. from New York University.



Moritz Turck – Vice President

Mr. Turck reviews investment opportunities with specific emphasis on analysis and due diligence for prospective investments. Mr. Turck operates out of Abbott's subsidiary in London, Abbott Capital (Europe), Ltd. Abbott Capital (Europe), Ltd., is authorized and regulated by the UK Financial Conduct Authority. Before joining the investment team in 2017, Mr. Turck was a Senior Associate on the Global Investment Team of Pavilion Alternatives, where he was responsible for evaluating and reviewing private equity managers across the EMEA region, and particularly in Western and Northern Europe. Mr. Turck received his M.S. in Accounting and Finance from Kings College London and his B.A. in Management Studies with French from the University of Nottingham.



Brian Susetka – Senior Investment Associate

Mr. Susetka reviews investment opportunities with specific emphasis on analysis and due diligence for prospective investments. Before joining the investment team in 2014, Mr. Susetka worked on Abbott's operations team for three years. Prior to joining Abbott Capital in 2010, Mr. Susetka worked in financial reporting at AllianceBernstein, where he assisted with the creation and development of custom client reports. Mr. Susetka received his B.S. in Business from the Kelley School of Business at Indiana University.

Team Biographies

Investments



Declan Feeley – Investment Associate

Mr. Feeley reviews investment opportunities with specific emphasis on analysis and due diligence for prospective investments. Before joining the investment team in 2017, Mr. Feeley worked at Maltese Capital Management. Mr. Feeley received his B.B.A. in Finance from the University of Notre Dame.



Sean Bacon – Investment Analyst

Mr. Bacon reviews investment opportunities with specific emphasis on analysis and due diligence for prospective investments. Before joining Abbott, Mr. Bacon worked as an Analyst at Dyal Capital Partners. Mr. Bacon received his B.S. in Business Administration from Boston University – Questrom School of Business.



Taylor McGinnis, CPA – Investment Analyst

Ms. McGinnis reviews investment opportunities with specific emphasis on analysis and due diligence for prospective investments. Before joining Abbott, Ms. McGinnis worked as an Assurance Associate at PricewaterhouseCoopers. Ms. McGinnis received her M.F.M. in Financial Management and her B.B.A. in Accounting and Business from Texas A&M University, and her C.P.A. from the State of Texas.

Team Biographies

Client Relations & Business Development



Ryan Green – Director

Mr. Green manages and leads Abbott’s fundraising and the development of customized private equity solutions. Prior to joining Abbott Capital in 2017, Mr. Green was a Director at LGT Capital Partners, working closely with institutions, consultants, family offices and distribution partners. Mr. Green held a similar role as a member of the institutional sales team at Commonfund and during his tenure at Seasons Capital Management. Before joining Seasons Capital, Mr. Green was a Vice President within the institutional sales desk at DoubleRock. Mr. Green was the co-founder to TrainerLink Inc., a technology start-up and received his B.S. from Rutgers University.



Melanie Jones – Vice President

Ms. Jones assists in all marketing, client services, and business development activities. Prior to joining Abbott Capital in 2020, Ms. Jones was an Associate Director at Commonfund, working in the Relationship Management and Business Development Group. Prior to Commonfund, Ms. Jones was part of the Investor Relations group at Tudor Investment Corporation and Citco Fund Services. Ms. Jones received her B.S. in Business Management from the University of Connecticut.



Daniel Kettner – Vice President

Mr. Kettner assists in all marketing, client services and business development activities. Prior to joining Abbott Capital in 2015, Mr. Kettner was a Vice President at Neuberger Berman, focusing on relationship management with investment consultants. Mr. Kettner previously was a member of the sales team at Aviva Investors North America, and worked at Credit Suisse Asset Management in various capacities. Mr. Kettner received his B.A. in English Literature from Hamilton College and his M.B.A. in Finance from New York University.



Kristin Kunert – Vice President

Ms. Kunert assists in all marketing, client services, and business development activities. Prior to joining Abbott Capital in 2017, Ms. Kunert was an Investor Relations associate at Wilshire Private Markets, a business unit of Wilshire Associates. Ms. Kunert received her B.A. in English Literature from the State University of New York at Buffalo, M.A. in English Literature from the University of Pittsburgh, and her M.B.A. from the SC Johnson Graduate School of Management at Cornell University.



Valentine Whittaker – Vice President

Mr. Whittaker assists in all marketing, client services, and business development activities. Prior to joining Abbott Capital in 2020, Mr. Whittaker was an Alternatives Director at Schroder AdvEq, responsible for fundraising and institutional client service. Mr. Whittaker was a member of the sales team at Capital Dynamics and Brookfield Asset Management. He was a Communications Specialist at Vontobel Asset Management and started his career at JPMorgan Asset Management where he had a variety of investment management roles. Mr. Whittaker received his B.S. in Management from SUNY Old Westbury.

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Past performance is not a guide to future results and is not indicative of expected realized returns. This material contains confidential and trade secret information regarding Abbott Capital Management, LLC ("Abbott"), its affiliates, funds sponsored by Abbott (the "Abbott Funds") and Abbott's managed account clients (collectively along with the Abbott Funds, the "Abbott Clients") as well as underlying portfolio funds held by the Abbott Clients and portfolio companies held by these funds. This material and the information contained in this material may not be reproduced or distributed to persons other than the recipient or its advisors, but solely to the extent such advisors are bound by a duty of confidentiality.

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Private equity investments are highly illiquid and are not suitable for all investors. All investments are subject to risk of loss, including the loss of principal. Private Equity performance is volatile and the value of investment(s) will fluctuate. Additional risks include, among others, those associated with the use of leverage, illiquidity and restrictions on transferability and resale of private equity investments, dependence on the performance and judgment of underlying portfolio investment managers over which Abbott has no control, Abbott's ability to access suitable investment opportunities sufficient to satisfy each client's investment objectives, and the speculative nature of private equity investments in general. Diversification will not guarantee profitability or protection against loss. There is no assurance that any Abbott Client's objective will be attained.

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Coronavirus Outbreak Risks. The recent global outbreak of the 2019 novel coronavirus ("COVID-19"), together with resulting voluntary and U.S. federal and state and non-U.S. governmental actions, including, without limitation, mandatory business closures, public gathering limitations, restrictions on travel and quarantines, has meaningfully disrupted the global economy and markets. Although the long-term economic fallout of COVID-19 is difficult to predict, it has and is expected to continue to have ongoing material adverse effects across many, if not all, aspects of the regional, national and global economies. In particular, the COVID-19 outbreak has already, and will continue to, adversely affect many private equity investments and many of the industries in which private equity managers operate. The ability to operate effectively, including the ability of personnel or service providers and other contractors to function, communicate and travel to the extent necessary to carry out investment strategies and objectives and business, has been, and will continue to be, impaired. Markets are experiencing very high levels of volatility and generally stressed conditions. Businesses across the United States and the world, and across most sectors, are experiencing significant challenges to their revenues and business, which could make it difficult for businesses to continue as a going concern. Unemployment is likely to rise significantly and reduced revenues may reduce profits or lead to losses. Many governments--federal, state, local, and non-United States--have imposed limitations on businesses and intervened in markets in an effort to ensure they continue to function. It is unclear how long these conditions will continue and, the longer these conditions continue, the risk of a long term adverse effect increases. The extent of COVID-19's impact will depend on many factors, including the ultimate duration and scope of the public health emergency and the restrictive countermeasures being undertaken, as well as the effectiveness of other governmental, legislative and financial and monetary policy interventions designed to mitigate the crisis and address its negative externalities, all of which are evolving rapidly and may have unpredictable results. Even if and as the spread of the COVID-19 virus itself is substantially contained and economies are able to "re-open", it will be difficult to assess what the longer-term impacts of an extended period of unprecedented economic dislocation and disruption will be on future macro-and micro- economic developments, the health of certain industries and businesses, and commercial and consumer behavior.

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Market Performance and Indices: Market indices, benchmarks or other measures of relative market performance are provided for information only and do not imply that an Abbott Client will achieve, or should expect, similar returns, volatility or results, or that these are appropriate benchmarks to be used for comparison. The market volatility, liquidity and other characteristics of private equity investments are materially different from publicly-traded securities and the composition of these indices does not reflect the manner in which any Abbott Client portfolio is constructed with respect to expected or actual returns, portfolio guidelines/restrictions, investment strategies/sectors, or volatility, all of which change. Index returns will generally reflect the reinvestment of dividends, if any, but do not reflect the deduction of any fees or expenses which would reduce returns. An investor cannot invest directly in the indices.

With respect to publicly-traded securities, Abbott generally calculates or provides performance using the following indices:

- **S&P 500:** Annualized time-weighted total returns of the S&P 500 (represents the 500 most widely-held large cap US stocks on the NYSE or NASDAQ) includes the reinvestment of dividends and income.
- **MSCI World:** Annualized time-weighted total returns of the MSCI World (represents large and mid-cap equity performance across 23 developed markets countries) are based on values provided by MSCI and include the reinvestment of dividends and income.

Private equity indices return data is provided for informational purposes only, is continually updated and subject to change, is based on only a limited number of private equity funds when compared to the entire private equity industry, and does not reflect a consistent benchmark or basis for comparison for private equity investments. Abbott generally calculates or provides private equity performance sourced from the following indices:

- **Pevara Index:** vintage year since-inception returns, provided by Pevara based on data compiled from over 3,500 global private equity funds, including fully liquidated funds. Funds with a vintage year of prior to 1991 are aggregated into a single benchmark. Pevara and Abbott define vintage year differently; Pevara defines VY as the year the fund made its initial investment while Abbott defines VY as the year the fund made its initial capital call.

Where indicated, returns are calculated as a **Public Market Equivalent (PME or PME+)** as described in "A Private Investment Benchmark", a 1996 white paper by Austin M. Long III and Craig J. Nickels, and PME+ as described in "Private Equity Benchmarking with PME+", an article published in the Venture Capital Journal (August 2003) by Christophe Rouvinez of Capital Dynamics. PME analysis/return is calculated without adjustment for management fee and carried interest paid to Abbott. PME is an internal rate of return calculated as if investor cash flows were used to purchase and sell shares of a public market index. PME+ scales distributions by a constant proportion such that the net remaining investment in the index equals the actual net asset value at the measurement date. PME+ is provided because if a portfolio significantly outperforms the public market index due to a high level of distributions, the net remaining investment in the index may be in a short position. A PME+ return calculation permits the net remaining investment in the index to equal the net asset value of the private equity portfolio at the measurement date. Any PME (or PME+) analysis is based on illiquid and unrealized values which will vary considerably over the life of an investment, thus making this type of comparison more relevant with respect to mature funds (i.e., where net asset value is a small fraction of total distributions). **Horizon PMEs** are calculated using actual daily cash flows of each portfolio investment; **Abbott Fund PMEs** are calculated using cash flows between the relevant Abbott Fund and its limited partners.

Important Information

Abbott and Portfolio Investment Performance Information:

Internal Rate of Return (IRR) represents the annualized internal rate of return over the relevant period using Latest Valuation.

Latest Valuation refers to the fair value of net assets as of the report date.

Total Value equals Distributions plus Latest Valuation.

TVPI represents the Total Value over Contributions.

DPI represents Distributions over Contributions.

A Net IRR or a net multiple is net of underlying portfolio fund investment fees and expenses, net of fees paid (or pro forma fees paid) to Abbott as the investment adviser, and net of allocations of carried interest to Abbott, if any.

A Gross IRR or a gross multiple, and unless otherwise noted, any composite level or individual portfolio investment return, is net of underlying portfolio investment fees and expenses, but NOT net of fees paid, or allocations of carried interest made, to Abbott as the investment adviser, account level expenses and adjustments resulting from gains and losses realized upon the sale of distributed stock. Actual returns to an individual investor or client would be further reduced for any such fees and expenses not accounted for in the performance calculations.

AUM will not reflect Abbott's reported RAUM due to the inclusion of non-discretionary assets for which Abbott does not provide continuous and regular supervisory or management services and the inclusion of liabilities.

Since Inception refers to an Abbott inception date of March 31, 1987.

Not Meaningful (NM - primary portfolio investments): Abbott deems those returns greater than three years of age from the vintage year to be mature enough to provide meaningful performance information.

Not Meaningful (NM - Abbott Funds): Abbott deems those returns greater than two years of age from the vintage year to be mature enough to provide meaningful performance information.

Not Meaningful (NM - non-primary fund investments): Abbott deems those returns less than one quarter from the initial close date too immature to generate performance metrics.

Expenses, management fees and performance fees/carried interest paid by existing or past Abbott Clients may not be comparable to the expenses, management fees and performance fees/carried interest that another or future Abbott Client will pay in respect of its investments and such amounts may be lower or higher than amounts actually paid with respect to investors in prior or subsequent Abbott Funds or paid by discretionary separate account clients. Results portrayed may reflect the reinvestment of realized proceeds and other earnings by the Abbott Funds and the underlying portfolio investments. Exchange rate fluctuations may affect returns. Interim performance data may not accurately reflect the actual current or expected future performance of an Abbott Client. Performance data should not be used to compare returns among private equity funds due to, among other factors, differences in vintage year, investment strategy, investment size, etc. The performance herein has not been calculated, reviewed, verified or in any way sanctioned or approved by the general partners of the portfolio funds. There can be no assurance that any Abbott Client, its portfolio investments and underlying portfolio companies, or the private and public equity and debt markets in general, will perform, or continue to perform, similarly to prior periods, funds, investments, or accounts. It should not be assumed that any fund organized, or investment made, in the future will ultimately be profitable or will equal the performance of the funds, investments, or accounts listed in this material.

Unrealized valuations depend upon assumptions that may be reasonable under the circumstances and at the time made, but actual realized returns on unrealized investments will depend upon, among other factors, future operating results, the value of the assets and market conditions at the time of disposition, any related transaction costs and the timing and manner of sale, all of which may differ from the assumptions used for the valuations incorporated herein. Actual realized returns on unrealized investments may differ materially and adversely from the returns indicated herein.

The hypothetical and pro forma information herein is for illustrative purposes only and is not indicative of any future performance as it is hypothetical and does not reflect the actual results achieved by Abbott or any of its client accounts or investors. There is no assurance that this information accurately represents the performance that an investor would have achieved had it invested in any included transaction or any Abbott portfolio or that an investor will be able to make any profit or be able to avoid incurring any substantial losses.

Abbott Fund Performance: Unless otherwise noted, performance metrics are presented as net to the limited partners in the relevant Abbott Fund as a whole and exclude Abbott's general partner interest. Performance for each individual limited partner will differ from the performance disclosed due to varying limited partner closing dates, negotiated or scaled management/performance fees, strategy allocations, and commitment amounts, and such differences may be material. In addition, certain designated limited partners, including without limitation certain employees and affiliates of Abbott, maintain a separate mandate with Abbott and are subject to a negotiated management and performance fee arrangement that differs from the management and performance fee arrangement applicable in general to limited partners in the Abbott Fund and otherwise set forth in the Abbott Fund's organizational documents. Such amounts may be paid by the investor out of assets not applicable to the Abbott Fund and are not taken into account when Abbott calculates and presents Abbott Fund returns.

Important Information

Certain Abbott Funds use a subscription line of credit. Performance may be favorably impacted when the Abbott Fund uses this line of credit to facilitate portfolio investments, or to pay expenses, because it defers the calling of capital from investors. Since IRR generally is calculated as of the date the Abbott Fund's capital is called, rather than at the earlier time of funding the portfolio investment or payment of the expense, the use of a subscription line of credit could have a favorable impact on performance returns. If a subscription line had not been used, the Net LP IRR may have been materially different due to the increased time an investor's capital was at risk.

Abbott may have arrangements with certain or prospective investors pursuant to which those investors receive additional information concerning the Abbott Fund portfolios.

Abbott Composites: Unless otherwise noted, the Abbott composites below include all relevant portfolio investments made by Abbott on behalf of its discretionary client accounts (including the Abbott Funds) being managed as of the date indicated or through liquidation. Not all composites may appear within this material. Composite performance is unaudited and does not represent the actual return of any Abbott Client. Composite returns are NOT net of account level expenses and adjustments resulting from the gains and losses realized upon the sale of distributed stock. Actual returns to an individual investor or client would be reduced for any such fees and expenses not accounted for in these performance calculations.

- **Abbott Horizon Performance:** Pooled returns for all portfolio investments, shown gross and net of Abbott's management fees and carried interest (if any).
- **Vintage Year Performance:** Unless otherwise noted, pooled returns by vintage year for primary fund investments only since inception. Returns are shown gross of Abbott's management fees and carried interest (if any). The application of an annual pro-forma management fee of 0.72% on each portfolio fund in the composite would result in an estimated average negative impact per year of 1.68% to IRR and 0.18X to TVPI. The pro-forma management fee applied is the equivalent of a 1.0% annual management fee on individual portfolio fund commitments, adjusted to reflect the typical phase-in and phase-down of the management fee over a 15-year period, or if earlier, through such time as the investment was liquidated or sold.

Pathway Capital Management

Prepared for Marin County Employees'
Retirement Association

OCTOBER 2020



- MCERA Private Equity Update
- Appendix

An abstract graphic on the left side of the slide, consisting of several overlapping curved shapes in various shades of blue and white, creating a dynamic, flowing effect.

MCERA Private Equity Update



Overview

At September 30, 2020

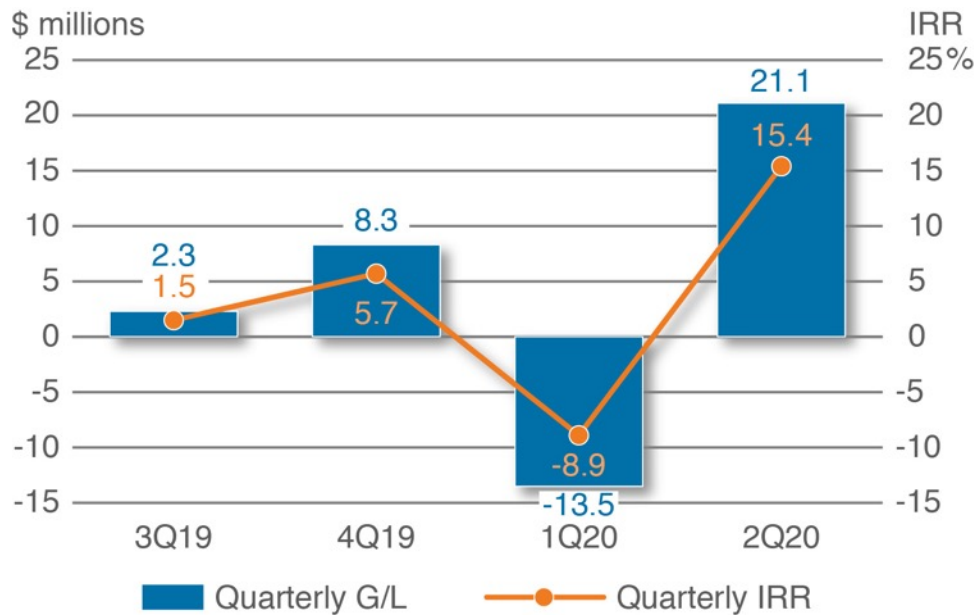
(\$ in millions)

	PPEF 2008	PPEF I-7	PPEF I-8	PPEF I-9
INCEPTION	Dec 2008	Feb 2013	Mar 2015	Feb 2017
FUND SIZE	\$321	\$308	\$400	\$289
MCERA'S COMMITMENT	\$100	\$35	\$50	\$15
STATUS	Harvest/Liquidation	Harvest	Development	Investment/ Development
AGE	11.8 Years	7.6 Years	5.5 Years	3.6 Years
DOLLAR-WEIGHTED AGE	6.7 Years	3.9 Years	2.6 Years	1.4 Years
PORTFOLIO COMPOSITION	33 Primaries 1 Secondary	32 Primaries 3 Secondaries	36 Primaries 2 Secondaries 23 Co-investments	31 Primaries 7 Secondaries 22 Co-investments



Recent Performance

MCERA'S CONSOLIDATED QUARTERLY GAIN/LOSS & IRR



NOTE: Net of the general partners' underlying fees, expenses, and carry, as well as Pathway's management fee and expenses.

SECTOR ANALYSIS— MCERA VS. PUBLIC MARKETS

Industry Sector	S&P 500 YTD Performance	S&P 500 Sector Weighting	MCERA Sector Weighting
Software	26.5%	7.8%	33.7%
Information Tech (ex Software)	7.5%	14.9%	6.4%
Consumer Discretionary	6.6%	13.9%	20.0%
Communications	-1.0%	10.1%	5.0%
Healthcare	-1.7%	13.0%	13.9%
Consumer Staples	-7.1%	7.8%	0.8%
Materials	-8.0%	3.9%	0.6%
Real Estate	-10.0%	2.5%	0.0%
Utilities	-12.6%	2.7%	0.2%
Industrials	-15.5%	8.3%	8.2%
Financials	-24.6%	11.6%	8.9%
Energy	-37.0%	3.3%	2.3%
S&P 500 Return	-4.0%		

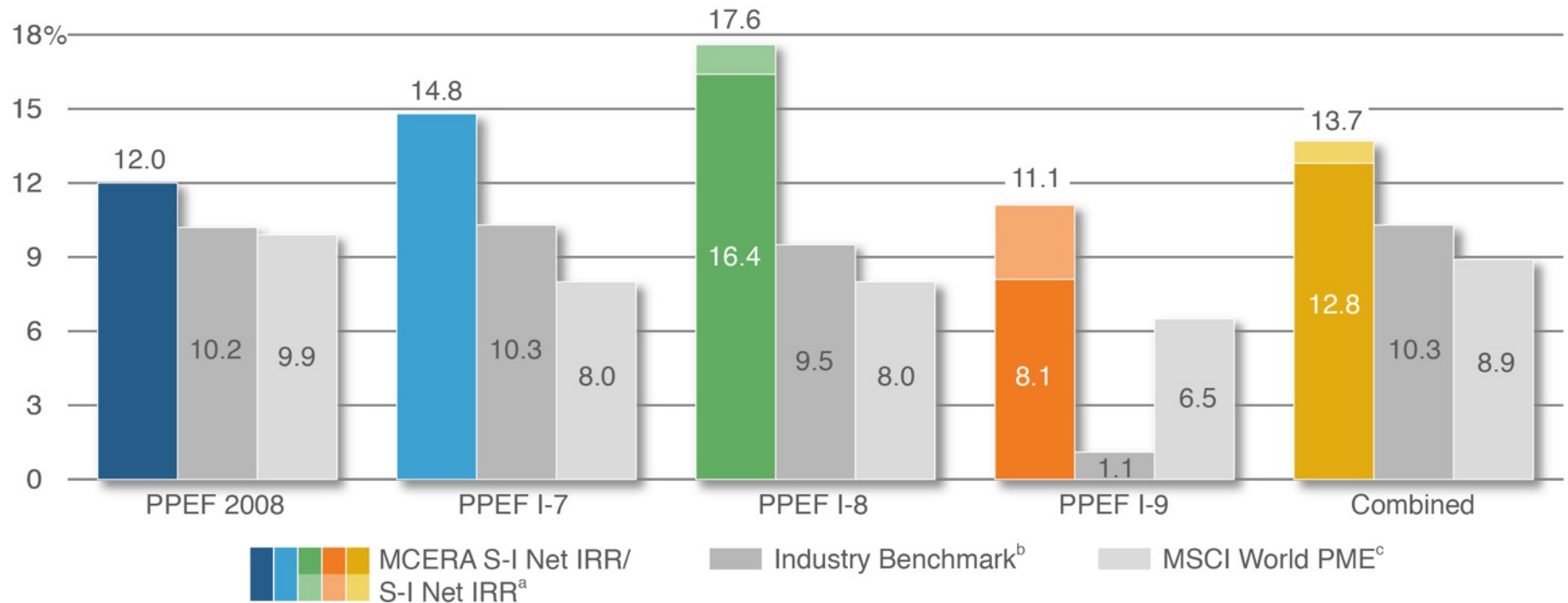
NOTES: As of June 30, 2020.

Excludes investments for which the general partners have not provided industry classifications; these investments represent 1.8% of the portfolio, as of June 30, 2020.



Fund Performance

At June 30, 2020



LOSS RATIO



NOTE: NM=Not meaningful.

^aNet of the general partners' underlying fees, expenses, and carry and net of Pathway's management fee and expenses. MCERA S-I Net IRR excludes co-investments because MCERA has elected to opt out of co-investments.

^bBurgiss Private iQ global benchmark for generalist and buyout funds of funds, as of June 30, 2020, as produced using Burgiss data. Combined benchmark based on Burgiss Private iQ pooled average return benchmarks for the initial vintage year in each fund, as of June 30, 2020, as produced using Burgiss data.

^cDollar-weighted MSCI World Index.



IRR by Investment Strategy & Region

At June 30, 2020

BY STRATEGY

	PPEF 2008	PPEF I-7	PPEF I-8	PPEF I-9
BUYOUTS	19.1%	17.6%	18.8%	14.5%
VENTURE CAPITAL	13.1%	19.6%	20.5%	15.5%
SPECIAL SITUATIONS	12.1%	23.0%	29.1%	8.2%
DISTRESSED DEBT	5.3%	-0.2%	10.6%	NM

BY REGION

	PPEF 2008	PPEF I-7	PPEF I-8	PPEF I-9
NORTH AMERICA	15.6%	18.2%	20.6%	16.8%
OTHER	14.4%	16.8%	20.4%	13.4%

NOTES: Performance is net of the general partners' underlying fees, expenses, and carry and gross of Pathway's management fee and expenses.

NM=Not meaningful.

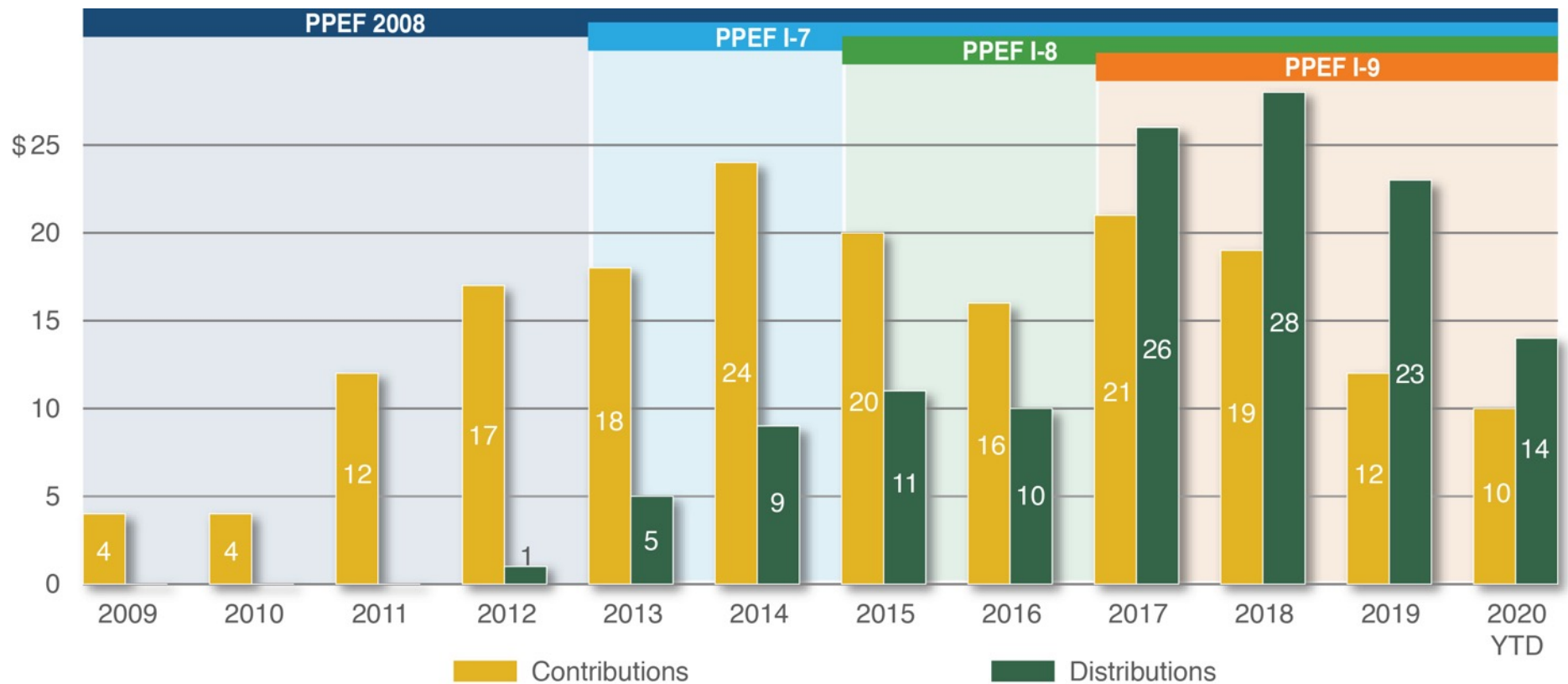


Cash-Flow Activity

At September 30, 2020

(\$ in millions)

MCERA'S CASH FLOWS



NOTE: Represents consolidated contributions to and distributions from MCERA's four investments with Pathway.

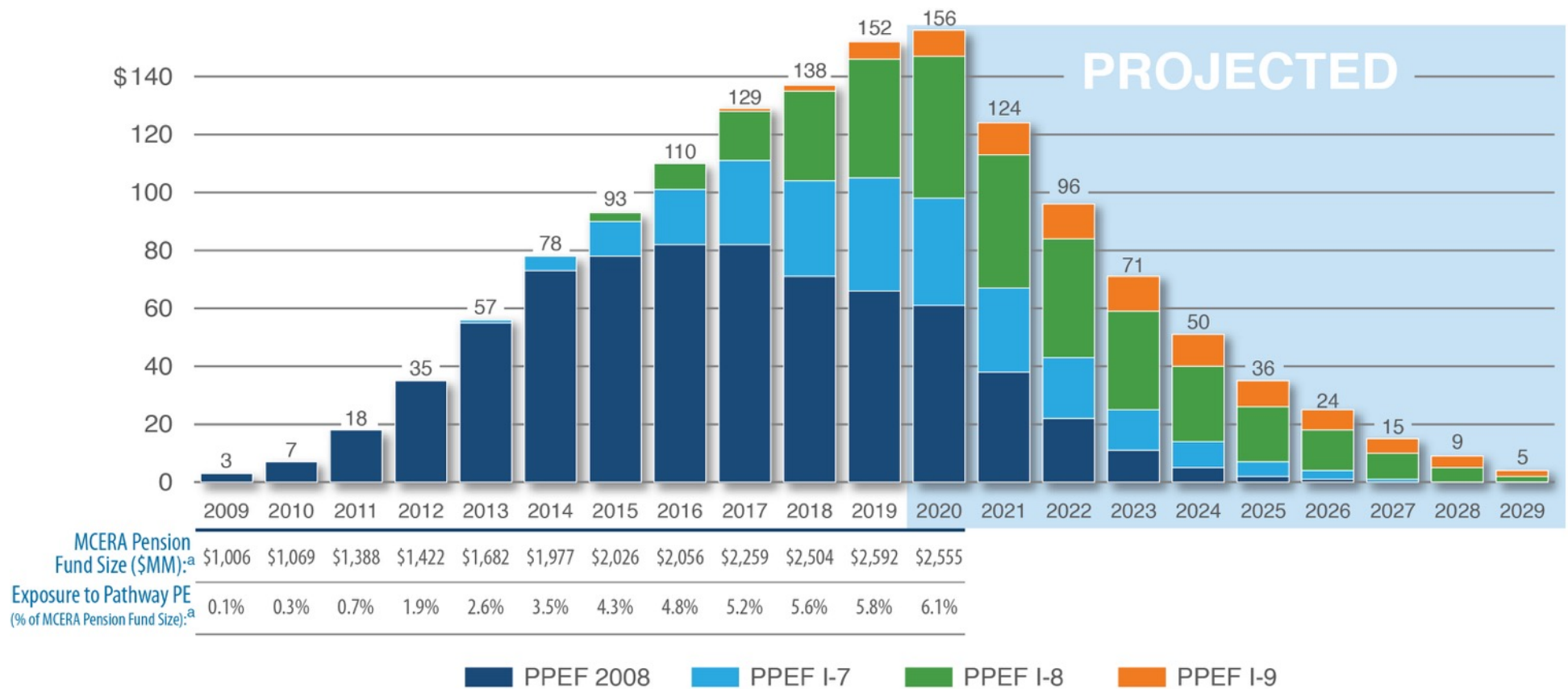


Market Value

At June 30, 2020

(\$ in millions)

MCERA'S ESTIMATED MARKET VALUE



NOTE: Please see page 16 for assumptions used in the projections model.

^aAs of June 30 of each year (MCERA's fiscal year-end). Calculated based on MCERA's total investments at fair value.

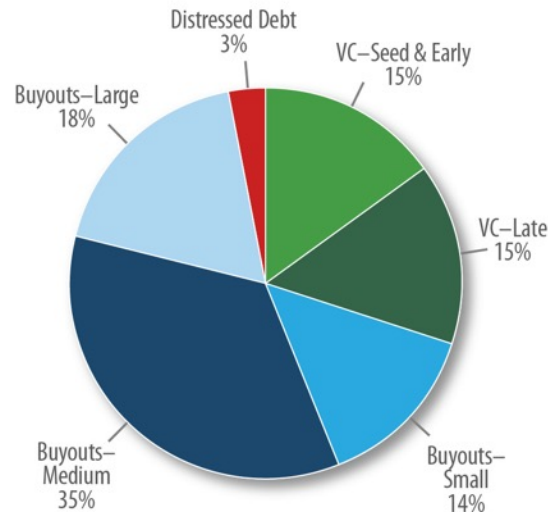


Portfolio Company Diversification

As a % of Company Market Value

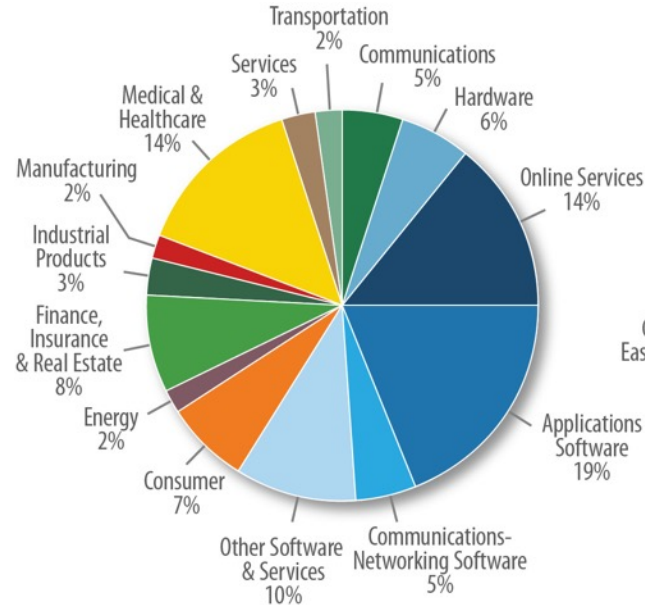
At June 30, 2020

INVESTMENT STRATEGY



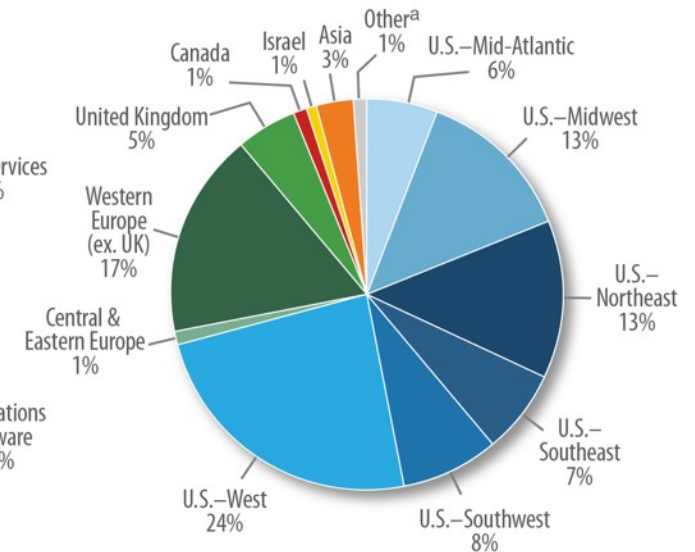
NOTES: Amounts based on MCERA's ownership. Buyout substrategies are based on the following ranges of total enterprise values: Mega >\$10 billion, Large \$1–\$10 billion, Medium \$200 million–\$1 billion, and Small <\$200 million.

INDUSTRY



NOTES: Amounts based on MCERA's ownership. Excludes investments for which the general partners have not provided industry classifications, as well as industries that each account for less than 1% of total market value.

GEOGRAPHIC REGION








NOTES: Amounts based on MCERA's ownership. Excludes investments for which the general partners have not provided geographic classifications. ^aComprises regions that each represent less than 1% of market value.



Notable Recent Events

At September 30, 2020

IPOs

 <p>IPO Value \$1.6bn Pharmaceuticals IPO DATE Jun-20</p>	 <p>IPO VALUE \$935m Application Software IPO DATE Jun-20</p>	 <p>IPO VALUE \$250m Financial Software IPO DATE Jul-20</p>	 <p>IPO VALUE \$1.5bn Automobile Manufacturer IPO DATE Aug-20</p>	 <p>IPO VALUE \$509m Business Software IPO DATE Sep-20</p>
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During the
Year Ended
September 30,
2020:

15
IPOs
in MCERA's
Portfolio

M&A

 <p>M&A VALUE \$5.3bn Software Services EXIT DATE Jan-20</p>	 <p>M&A VALUE \$2bn Software Services EXIT DATE Mar-20</p>	 <p>M&A VALUE \$1.2bn Infrastructure Software EXIT DATE Mar-20</p>	 <p>M&A VALUE \$1.2bn Healthcare Services EXIT DATE Apr-20</p>	 <p>M&A VALUE \$1.8bn Financial Software EXIT DATE Jul-20</p>
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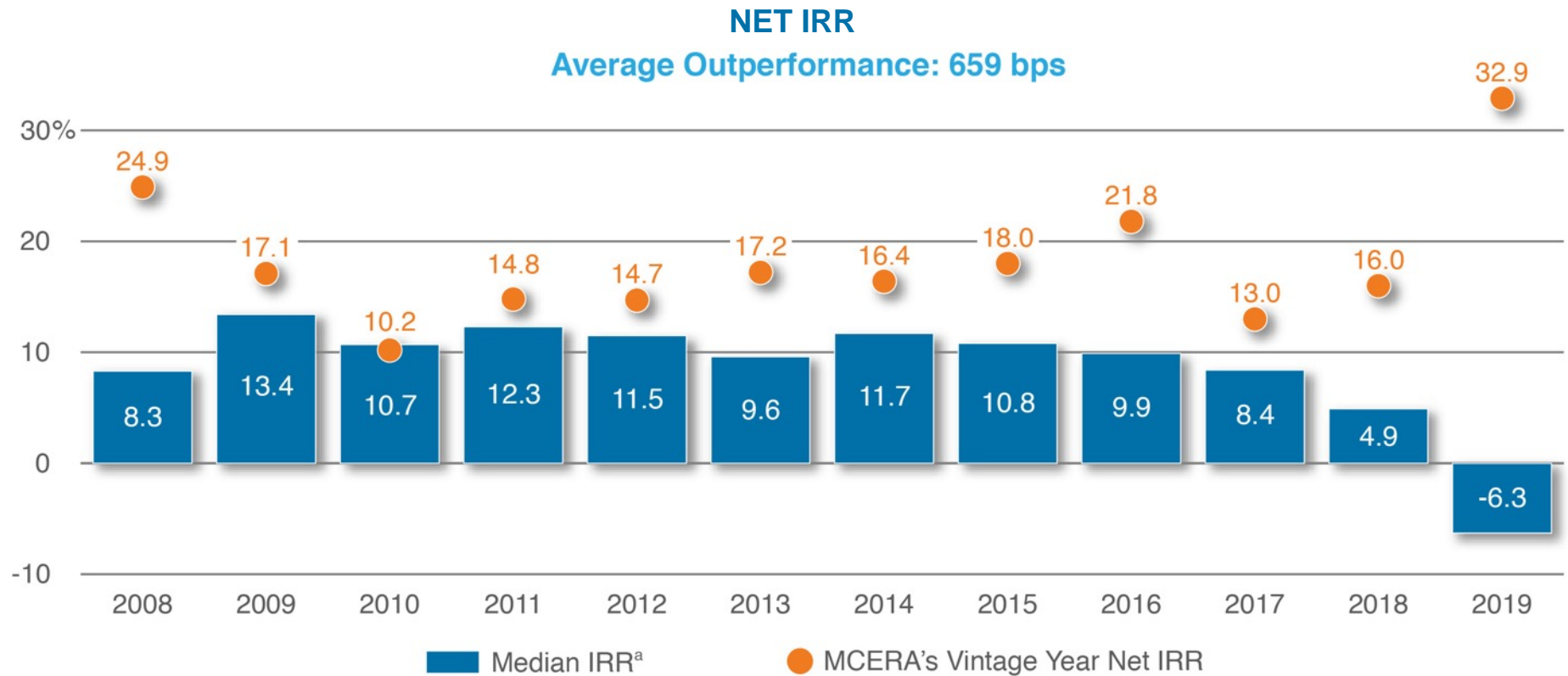
\$21
MILLION
Distributions
to MCERA

^aBased on share price at September 30, 2020. ^bExpected return.



IRR Comparison with Benchmarks

At June 30, 2020



NOTE: Net of the general partners' underlying fees, expenses, and carry, as well as Pathway's management fee and expenses.

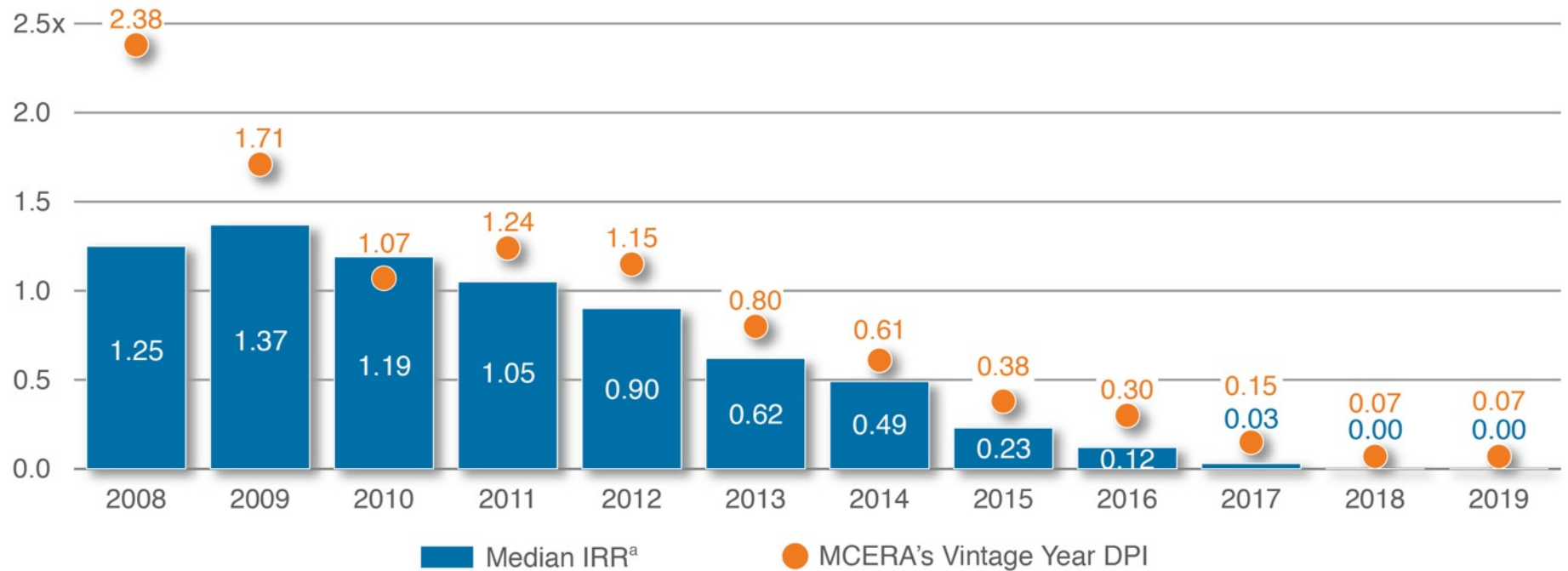
^aBurgiss Private iQ global all funds return benchmark, as of June 30, 2020, as produced using Burgiss data.



DPI Comparison with Benchmarks

At June 30, 2020

DISTRIBUTIONS TO PAID-IN Average Outperformance: 0.24x



NOTE: Net of the general partners' underlying fees, expenses, and carry, as well as Pathway's management fee and expenses.

^aBurgiss Private iQ global all funds return benchmark, as of June 30, 2020, as produced using Burgiss data.

Appendix



Biographies



James H. Reinhardt
Senior Managing Director

Mr. Reinhardt is a senior managing director and cofounder of Pathway whose private market experience dates back to 1983. Based in Pathway's California office, Mr. Reinhardt is involved in all aspects of Pathway's investment and client-servicing activities. He is a member of various Pathway committees, including the firm's Management Committee, Investment Committee, and Co-investment Investment Subcommittee.

Before forming Pathway, Mr. Reinhardt cofounded the Special Investments Division of Wilshire Associates Inc. This independent division of Wilshire focused exclusively on assisting institutions with investment in the private equity asset class. Mr. Reinhardt has served on the advisory boards and valuation committees of several private market investment partnerships. He received a BS in business management from the University of Redlands and an MBA from California State University, Northridge.



Valerie A. Ruddick
Managing Director

Ms. Ruddick joined Pathway in 1996 and is a managing director in the California office. She is responsible for investment analysis and conducting due diligence on primaries, secondaries, and co-investments; negotiating and reviewing investment vehicle documents; and client servicing. Ms. Ruddick helps manage the Target Funds team, which oversees Pathway's proactive investment origination efforts. Ms. Ruddick is a member of various Pathway committees, including the firm's Investment Committee, Portfolio Construction Committee, and Diversity & Inclusion Committee. Ms. Ruddick also serves on the advisory boards of several private market partnerships.

Ms. Ruddick received a BS in economics from the University of California, Irvine, and an MBA from the Anderson School at the University of California, Los Angeles.



Assumptions for Market Value Projection Model

1. Partnership commitments are made evenly throughout any given year, rather than at the beginning or end of that year.
2. Expected annual contributions are based on the ratio of pooled paid-in capital to commitment, using historical vintage year data captured by Pathway and data provided by Thomson Reuters.
3. Expected annual distributions are based on the ratio of pooled distributions to paid-in capital, using historical vintage year data captured by Pathway and data provided by Thomson Reuters.
4. Sufficient high-quality investments are available to meet targeted annual commitments.
5. Each private equity partnership has a 14-year life (including extensions).
6. Cash-flow and market value projections include underlying partnership fees but not Pathway's management fees.

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The information provided herein should not form a primary basis for any investment decision made by you or on your behalf, and neither Pathway nor any of its affiliates shall act as a fiduciary or adviser with respect to this matter.

There can be no assurance that the targets stated above can be achieved. Targets are objectives and should not be construed as providing any assurance or guarantee as to the results that may be realized in the future from investments in any asset or asset class described herein.



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October 27, 2020



Marin County Employees' Retirement Association

Private Equity Portfolio Annual
Review and Commitment Pacing
Analysis

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Callan

Private Equity Pacing Study

MCERA Private Equity Commitment Pacing Study

Private Equity Program History

- MCERA selected its two managers in Fall 2008, just as the Great Recession was accelerating. The prolonged economic contraction slowed private equity investment. MCERA's program initially developed slowly.
- In 2013, MCERA reinvested smaller commitments with both managers due to a modest change in the total plan's value and a large backlog of uncalled capital (75% of the original commitment).
- By 2015, MCERA's total plan increased 40%, uncalled commitments declined, and distributions had initiated, therefore additional commitments of \$50 million were made to each manager.
 - MCERA also decided to review commitments annually: better governance and the managers shortening their fundraising cycles.
- In 2016, MCERA made \$15 million commitments to each manager (\$30 million total).
- The total plan's value rose 3.3% during the last year (ending 6/30/19) and private equity rose to 10.6% of total assets, up from 10.0% last year versus the 8% target.
- MCERA's backlog of uncalled commitments has reduced significantly, and further commitment will be required to maintain the target in future years.
- MCERA should make additional commitments in 2020 to continue dollar cost averaging across vintage years.

MCERA Private Equity Holdings as of 3/31/20

Vehicle	Year	Commits	Paid-In	% PI	Uncalled	Distrib	NAV	DPI	RVPI	TVPI	IRR
ACE VI	2008	100,000,000	99,000,000	99%	1,000,000	108,893,939	52,498,371	1.10	0.53	1.63	11.5%
PPEF 2008	2008	100,000,000	97,417,251	89%	10,585,498	99,993,048	56,517,117	1.03	0.58	1.61	11.0%
ACE VII	2014	35,000,000	33,950,000	97%	1,050,000	12,250,000	36,660,318	0.36	1.08	1.44	14.3%
PPEF Investors 7	2012	35,000,000	32,691,874	89%	3,877,974	13,536,777	35,601,146	0.41	1.09	1.50	12.9%
AP 2016	2016	50,000,000	31,306,251	63%	18,693,749	2,800,000	32,045,052	0.09	1.02	1.11	7.8%
PPEF Investors 8	2015	50,000,000	33,831,144	66%	17,168,186	3,377,521	40,266,200	0.10	1.19	1.29	12.2%
AP 2017	2017	15,000,000	6,255,000	42%	8,745,000	0	6,638,951	0.00	1.06	1.06	5.3%
PPEF Investors 9	2017	15,000,000	6,521,061	43%	8,592,504	651,549	5,716,887	0.10	0.88	0.98	-2.3%
Total		400,000,000	340,972,581	83%	69,712,911	241,502,834	265,944,042	0.71	0.78	1.49	NA

Private Equity Market Conditions

Economic Contraction and Uncertainty, Resilient but Volatile Investment Markets

- In 2019, equity markets experienced a strong rise (Russell 3000 Index: +31.0%). Private equity also delivered double digits returns (Cambridge PE Index +16.3%). The first two quarters of 2020 have seen a large decline and strong recovery, and at present, total plan values have preserved their gains.
- In 1Q20 private equity fell -7.8% versus the Russell 3000 Index (-20.9%), but the 2Q rally (Russell 3000 Index: +22.0%) will also be less pronounced for PE—preliminary returns indicate about a 10% uplift.
- Distributions slowed in 2019 but remained strong for a seventh year. They have slowed further in 1H20. A similar declining pattern occurred for new company investment pace, first due to high 2019 prices then 1H20 uncertainty.
- Fundraising demand has not slackened and increased to \$692 billion in 2019 (from \$658 billion) supported by significant distributions and strong total plan valuation increases. In 1H20 mid-year fundraising is up 10%.
 - Fundraising count has fallen 25% so far in 2020 but more commitments are being made to larger funds.
- Average U.S. buyout deal pricing set a record high in 2019 of 11.5x EBITDA, but has dropped 20% to 9.2x at 1H20.
- Credit is available at low interest rates, but lenders are being more selective which is also hampering private M&A activity.
 - Non-bank private debt funds are supporting supply.
 - In 2Q20, equity contributions remain relatively large (average 46% of total purchase price).
- Exits and distributions were down somewhat in 2019 (-13%), but still provided strong liquidity for mature portfolios. Mid-year 2020 volumes are down 25% or more, although the market shows signs of stabilizing.
- The path forward is less certain than at other times, but GPs have largely completed shoring-up their existing portfolio companies and are seeking to engage again in transaction activity. It is too soon to discern a distinct trend; both with the economy and private equity activity.

Private Equity Funding Versus Target

Funding Analysis 3/31/20 (\$000)	Amount
Total Plan Assets	2,613,229
% PE Target	8.0%
\$ PE Target	209,058
Abbott NAV	127,843
Pathway NAV	138,101
Total Private Equity	265,944
% of Total Plan	10.2%
NAV \$ Over/(Under) Funded	56,885.72
NAV % Over/(Under) Funded	2.2%
Uncalled Commitments	69,713
% of PE Target	33%

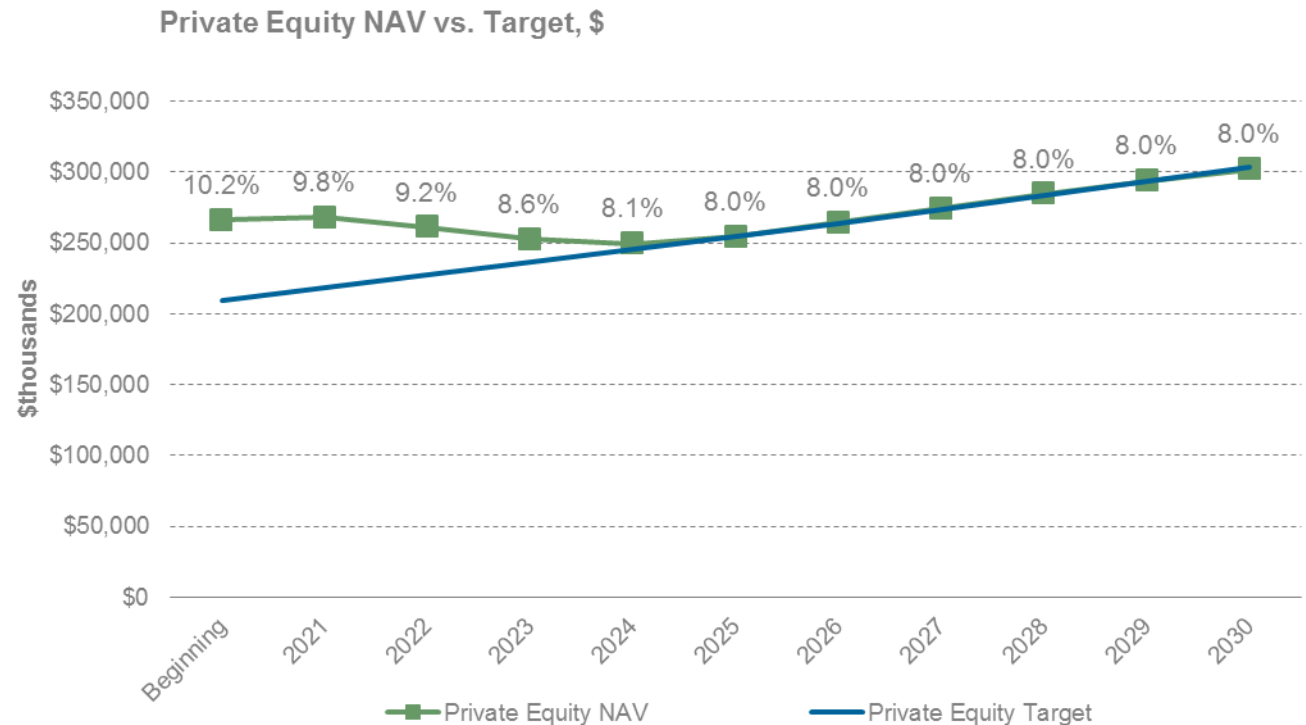
- MCERA is fully-funded and slightly above its target, but well within its 12% upper range.
 - The private equity NAV is expected to increase when 2Q20 values are finalized, so the allocation will be above the 10.2% shown.
- Uncalled commitments fell by \$28 million or 28% in the last year, are currently 34% of the target.
- The portfolio's Uncalled will no longer support maintaining the long-term 8% target and should be gradually bolstered.
- MCERA should make additional commitments currently to continue dollar-cost-averaging by vintage year.
- The portfolio is maturing and the first six vehicles will drive increased distributions as capital markets liquidity affords.

Future Commitments and Private Equity NAV Growth

Projected Future Commitments

MCERA Projected Commitments (\$000)

	Year	Abbott	Pathway	Total
1	2021	25,000	25,000	50,000
2	2022	30,000	30,000	60,000
3	2023	30,000	30,000	60,000
4	2024	30,000	30,000	60,000
5	2025	30,000	30,000	60,000
6	2026	30,000	25,000	55,000
7	2027	25,000	25,000	50,000
8	2028	25,000	30,000	55,000
9	2029	25,000	25,000	50,000
10	2030	25,000	25,000	50,000
	Totals	275,000	275,000	550,000
	Yearly Avg	27,500	27,500	55,000



- The table shows the expected future commitments for MCERA to maintain its 8% target as seen in the graph.
- The projection is based on:
 - MCERA's 2Q20 total fund value
 - The 1Q20 private equity holdings
 - A projected median return expectation of 6.60% for MCERA's target asset allocation (based on Callan's capital markets projections)
 - Less annual net cash outflows provided by MCERS' actuary, Cheiron, that start at -2.3% and rise to -3.1% over the projection period
- New commitments totaling \$50 million to fund-of-funds vehicles should be considered.

MCERA Annual Funding Program Projection

Callan

Pacing Model
Plan Values as of June 30, 2020
Private Equity Values as of March 31, 2020
Values in 000s, where applicable

	Beginning	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Total Plan											
Total Plan Assets, Beginning		\$2,613,229	\$2,724,539	\$2,837,677	\$2,950,649	\$3,065,139	\$3,181,785	\$3,300,033	\$3,419,763	\$3,541,287	\$3,665,216
Actuarial Contributions/(Distributions), Net		(59,209)	(64,551)	(71,941)	(77,689)	(82,917)	(88,818)	(94,939)	(100,853)	(106,289)	(111,685)
Unrealized Gain/(Loss)		170,519	177,689	184,913	192,179	199,563	207,067	214,669	222,376	230,217	238,219
Total Plan Assets, Ending	\$2,613,229	\$2,724,539	\$2,837,677	\$2,950,649	\$3,065,139	\$3,181,785	\$3,300,033	\$3,419,763	\$3,541,287	\$3,665,216	\$3,791,750
Total Plan Growth Rate (%), Net		4.3%	4.2%	4.0%	3.9%	3.8%	3.7%	3.6%	3.6%	3.5%	3.5%

Private Equity Target

Private Equity Target Assets	\$209,058	\$217,963	\$227,014	\$236,052	\$245,211	\$254,543	\$264,003	\$273,581	\$283,303	\$293,217	\$303,340
Private Equity Target, %	8.0%	8.0%	8.0%	8.0%	8.0%	8.0%	8.0%	8.0%	8.0%	8.0%	8.0%

Existing Private Equity Portfolio

Net Asset Value, Beginning		\$265,944	\$265,498	\$249,586	\$221,712	\$188,896	\$156,316	\$125,582	\$96,010	\$71,046	\$50,524
(+) Contributions		41,435	27,750	17,346	10,229	6,533	3,605	1,957	1,058	585	301
(-) Distributions		(62,456)	(62,957)	(62,492)	(57,852)	(51,139)	(43,788)	(38,518)	(30,924)	(24,038)	(17,633)
(+) Unrealized Gain/(Loss)		20,575	19,296	17,271	14,807	12,027	9,450	6,988	4,903	2,931	1,414
Net Asset Value, Ending	\$265,944	\$265,498	\$249,586	\$221,712	\$188,896	\$156,316	\$125,582	\$96,010	\$71,046	\$50,524	\$34,605

Unfunded Commitments

Unfunded Commitments	\$69,713	\$28,278	\$528	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
(-) Contributions		41,435	27,750	17,346	10,229	6,533	3,605	1,957	1,058	585	301

Future Commitments

	Into FoFs	Into Partnerships	NAV Projection									
2021 Commitments	\$50,000	\$16,667	2,465	6,002	9,169	11,168	11,798	11,477	10,396	9,199	7,815	6,461
2022 Commitments	\$60,000	\$36,667		5,422	13,204	20,172	24,569	25,957	25,249	22,871	20,237	17,194
2023 Commitments	\$60,000	\$56,667			8,380	20,406	31,175	37,971	40,115	39,022	35,346	31,275
2024 Commitments	\$60,000	\$60,000				8,873	21,607	33,009	40,204	42,474	41,317	37,425
2025 Commitments	\$60,000	\$60,000					8,873	21,607	33,009	40,204	42,474	41,317
2026 Commitments	\$55,000	\$58,333						8,626	21,006	32,092	39,088	41,295
2027 Commitments	\$50,000	\$55,000							8,133	19,806	30,258	36,854
2028 Commitments	\$55,000	\$53,333								7,887	19,206	29,341
2029 Commitments	\$50,000	\$51,667									7,641	18,606
2030 Commitments	\$50,000	\$51,667										7,641
	\$550,000	\$500,000	\$2,465	\$11,424	\$30,753	\$60,619	\$98,022	\$138,646	\$178,113	\$213,555	\$243,382	\$267,408

Existing & Future Private Equity Portfolio

Net Asset Value, Existing Portfolio		\$265,498	\$249,586	\$221,712	\$188,896	\$156,316	\$125,582	\$96,010	\$71,046	\$50,524	\$34,605
Net Asset Value, Future Commitments		2,465	11,424	30,753	60,619	98,022	138,646	178,113	213,555	243,382	267,408
Net Asset Value, Total	\$265,944	\$267,963	\$261,011	\$252,465	\$249,515	\$254,338	\$264,228	\$274,123	\$284,601	\$293,906	\$302,013
as % of Plan Assets	10.2%	9.8%	9.2%	8.6%	8.1%	8.0%	8.0%	8.0%	8.0%	8.0%	8.0%
Overallocation/(Underallocation)	56,886	50,000	33,996	16,413	4,303	(205)	226	542	1,298	688	(1,327)

Callan

Callan

**Manager and Total Portfolio Performance and
Benchmarking**

Manager Reviews: Abbott Capital Management

Firm Fund-of-Funds Composite: Last 19 Years (Gross of Fund-of-Funds Fees and Expenses)

- Founded in 1986, has been investing in private equity for 35 years.
 - Has 18 investment professionals and 61 employees, with offices in New York and London.
- Assets under management (uncalled commitments plus net asset value) are approximately \$10.0 billion.
- The firm has well-developed relationships with high-quality general partners.
- The firm has a strong fund-of-funds investment composite track record versus the Cambridge PE Database.
 - Vintage years are primarily first or second quartile, and cumulative is second quartile.
- MCERA began investing in 2008, and the earliest vintage years are beginning to mature.

Abbott - Fund-of-Funds Composite - as of 3/31/2020 (in \$000s)

Vintage Year	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	1Q20	Since 05
# Investments	20	21	16	13	10	10	15	21	7	19	27	33	16	37	41	9	315
Committed	351,381	509,121	312,211	323,498	178,845	283,875	332,137	561,189	137,400	335,389	367,788	321,745	194,146	309,739	356,967	47,900	4,923,334
Paid-In	343,326	503,005	312,905	328,770	173,419	277,424	335,355	569,665	131,592	315,587	350,989	254,851	117,332	213,997	77,718	28	4,305,962
% P-I	98%	99%	100%	102%	97%	98%	101%	102%	96%	94%	95%	79%	60%	69%	22%	0%	87%
Distributed	549,746	737,103	440,793	488,643	247,610	401,826	518,722	635,485	89,893	250,727	198,847	63,983	10,269	26,709	8,066	-	4,668,421
Residual Value	3,618	27,119	47,642	75,761	49,823	111,307	153,089	360,195	108,702	296,463	279,815	251,620	115,913	237,184	66,265	(36)	2,184,479
DPI	1.60	1.47	1.41	1.49	1.43	1.45	1.55	1.12	0.68	0.79	0.57	0.25	0.09	0.12	0.10	0.00	1.08
RVPI	0.01	0.05	0.15	0.23	0.29	0.40	0.46	0.63	0.83	0.94	0.80	0.99	0.99	1.11	0.85	(1.29)	0.51
TVPI	1.61	1.52	1.56	1.72	1.72	1.85	2.00	1.75	1.51	1.73	1.36	1.24	1.08	1.23	0.96	(1.29)	1.59
IRR	9.1%	7.7%	9.7%	12.9%	13.1%	15.2%	18.5%	15.8%	14.1%	20.4%	13.3%	12.4%	4.7%	18.8%	-8.5%	-100.0%	11.9%
DPI Quartile	Second	Second	Second	Second	Second	Second	First	First	Second	First	First	First	First	First	First	NM	Second
TVPI Quartile	Second	Second	Second	Second	Third	Second	Second	Second	Second	Second	Second	Second	Second	First	First	NM	Second
IRR Quartile	Second	Second	Second	Second	Second	Second	First	Second	Second	Second	Second	Second	Third	First	Second	NM	Second

NA=Not Available, NM=Not Meaningful

Note: Returns are Gross of FOF fees and expenses

Color Key:

First Second Third Fourth

Refinitiv/Cambridge All Region, All PE Benchmarks - as of 3/31/2020

Vintage Year	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	1Q20	Total
Sample Size	238	273	285	245	118	143	189	198	193	218	260	216	191	233	197	19	3,216
DPI - Upper	1.80	1.77	1.73	1.74	1.77	1.54	1.31	1.11	0.85	0.57	0.38	0.20	0.09	0.00	0.00	0.00	1.28
DPI - Median	1.38	1.34	1.34	1.31	1.30	1.14	0.82	0.75	0.41	0.28	0.15	0.05	0.00	0.00	0.00	0.00	0.50
RVPI - Upper	0.17	0.24	0.39	0.54	0.68	0.86	1.24	1.17	1.30	1.52	1.39	1.30	1.21	1.07	0.97	0.99	1.09
RVPI - Median	0.04	0.06	0.14	0.18	0.32	0.48	0.73	0.78	0.95	1.14	1.13	1.10	1.07	0.96	0.90	0.91	0.78
TVPI - Upper	1.93	1.99	2.02	1.92	2.26	2.37	2.18	2.11	1.87	1.96	1.60	1.48	1.28	1.08	0.97	0.99	1.78
TVPI - Median	1.48	1.47	1.53	1.49	1.77	1.61	1.61	1.61	1.42	1.49	1.35	1.20	1.13	0.99	0.90	0.91	1.34
IRR - Upper	12.6%	12.5%	14.5%	15.9%	20.6%	18.9%	18.0%	19.0%	18.4%	21.5%	18.8%	19.6%	19.0%	8.4%	-3.5%	-1.3%	16.1%
IRR - Median	7.5%	7.1%	8.6%	9.3%	12.7%	11.6%	11.9%	12.5%	10.9%	12.6%	12.0%	9.9%	8.5%	-1.1%	-13.4%	-8.6%	8.8%

Manager Reviews: Pathway Capital Management

Firm Fund-of-Funds Composite: Last 12 Years (Gross of Fund-of-Funds Fees and Expenses)

- Founded in 1993, has been investing in private equity for 28 years.
 - Has 69 investment professionals and 187 employees, with offices in Irvine, Rhode Island, London and Hong Kong
- Assets under management (uncalled commitments plus net asset value) are approximately \$64.6 billion.
- The firm has well-developed relationships with high-quality general partners.
- Pathway did not begin raising commingled fund-of-funds products until the 2007 time frame.
- The firm has a strong fund-of-funds composite track record versus the Cambridge PE Database.
 - Vintage years are primarily first and second quartile, and cumulative is second quartile.
- MCERA began investing in 2008 and the earliest vintage years are beginning to mature.

Pathway - Fund-of-Funds Composite - as of 3/31/2020 (in \$000s)

Vintage Year	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	1Q20	Cumulative
# Funds	2	10	7	5	14	10	14	19	20	31	20	27	25	17	221
Committed	9,500	139,374	46,381	82,500	193,685	152,078	173,357	230,885	213,246	214,860	155,725	188,561	137,557	82,745	2,020,453
Paid-In	10,137	139,363	45,497	83,444	201,271	141,813	176,977	217,796	202,964	184,016	115,250	110,764	55,427	10,407	1,695,125
% P-I	107%	100%	98%	101%	104%	93%	102%	94%	95%	86%	74%	59%	40%	13%	84%
Distributed	15,457	223,677	70,694	98,791	256,022	174,248	141,543	136,849	78,288	66,835	19,256	7,062	1,190	-	1,289,913
Residual Value	1,026	25,285	17,437	33,949	98,024	77,696	140,684	206,173	223,130	201,965	109,405	113,572	55,145	9,636	1,313,125
DPI	1.52	1.60	1.55	1.18	1.27	1.23	0.80	0.63	0.39	0.36	0.17	0.06	0.02	0.00	0.76
RVPI	0.10	0.18	0.38	0.41	0.49	0.55	0.79	0.95	1.10	1.10	0.95	1.03	0.99	0.93	0.77
TVPI	1.63	1.79	1.94	1.59	1.76	1.78	1.59	1.57	1.49	1.46	1.12	1.09	1.02	0.93	1.54
IRR	12.9%	13.2%	15.8%	11.1%	14.9%	16.4%	15.4%	16.0%	16.4%	20.8%	7.6%	7.6%	2.5%	-20.2%	14.7%
DPI Quartile	Second	Second	Second	Second	Second	First	Second	First	First	First	First	First	First	NM	Second
TVPI Quartile	Second	Second	Second	Third	Second	Second	Second	Second	Second	Second	Second	First	First	NM	Second
IRR Quartile	Second	Second	Second	Third	Second	Second	Second	Second	Second	First	Third	Second	First	NM	Second

NA=Not Available, NM=Not Meaningful Note: Returns are Gross of FOF fees and expenses. Color Key:

First Second Third Fourth

Refinitiv/Cambridge All Region, All PE Benchmarks - as of 3/31/2020

Vintage Year	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	1Q20	Total
Sample Size	285	245	118	143	189	198	193	218	260	216	191	233	197	19	2,705
DPI - Upper	1.73	1.74	1.77	1.54	1.31	1.11	0.85	0.57	0.38	0.20	0.09	0.00	0.00	0.00	1.08
DPI - Median	1.34	1.31	1.30	1.14	0.82	0.75	0.41	0.28	0.15	0.05	0.00	0.00	0.00	0.00	0.33
RVPI - Upper	0.39	0.54	0.68	0.86	1.24	1.17	1.30	1.52	1.39	1.30	1.21	1.07	0.97	0.99	1.14
RVPI - Median	0.14	0.18	0.32	0.48	0.73	0.78	0.95	1.14	1.13	1.10	1.07	0.96	0.90	0.91	0.88
TVPI - Upper	2.02	1.92	2.26	2.37	2.18	2.11	1.87	1.96	1.60	1.48	1.28	1.08	0.97	0.99	1.75
TVPI - Median	1.53	1.49	1.77	1.61	1.61	1.61	1.42	1.49	1.35	1.20	1.13	0.99	0.90	0.91	1.31
IRR - Upper	14.5%	15.9%	20.6%	18.9%	18.0%	19.0%	18.4%	21.5%	18.8%	19.6%	19.0%	8.4%	-3.5%	-1.3%	16.9%
IRR - Median	8.6%	9.3%	12.7%	11.6%	11.9%	12.5%	10.9%	12.6%	12.0%	9.9%	8.5%	-1.1%	-13.4%	-8.6%	9.3%

Total Portfolio: One-Year Change Analysis

As of March 31, 2020

Year	Commits	Paid-In	% PI	Uncalled	Distrib	NAV	DPI	RVPI	TVPI
2019	400,000,000	312,356,911	76%	97,241,817	197,459,132	274,009,913	0.63	0.88	1.51
2020	400,000,000	340,972,581	83%	69,712,911	241,502,834	265,944,042	0.71	0.78	1.49
Change	0	28,615,670	7%	(27,528,907)	44,043,702	(8,065,871)	0.08	-0.10	-0.02
% Change	0%	9%	9%	-28%	22%	-3%	12%	-11%	-1%

As of March 31, 2020

Key Metrics	
Gross Distributions	44,043,702
Gross Distribution Yield ⁽¹⁾	16.1%
Net Distributions	15,428,031
Net Distribution Yield ⁽²⁾	5.6%
NAV Change	(8,065,871)
NAV Increase	-2.9%
\$ Total Increase	7,362,160
Total Increase	2.7%

(1) Gross Distributions / Starting NAV

(2) Gross Distributions / Starting NAV

(Both include return of capital and gains)

- The Paid-In rate has slowed to 9% from 14% last year due to high prices in 2019 and the start of the pandemic in 1Q20. The investment pace is a little slower than typical.
- Uncalled declined by 28% versus 28% last year, and remaining Uncalled is only about one-third of the current target and will need to be bolstered in order to maintain the long-term target over time.
- Gross distributions of 16% of last year's starting NAV are strong, but down slightly from last year's 22%.
- Net distributions were 5.6% of the starting NAV (versus 5.9% last year), which combined with the NAV decrease of ~3% (versus 9.5% last year) results in a total portfolio value increase of 2.7% (versus 15.4% last year).
 - The Russell 3000 last-twelve-month return was -9.13%.
- The DPI increased, but the TVPI dropped slightly as paid-in increased more than the portfolio's dollar gain.

Manager Reviews: MCERA Composite

Since Inception Vehicles Composite (Net of Fund-of-Funds Fees and Expenses)

MCERA Vehicle Composite as of March 31, 2020

Vehicle	ACE VI	ACE VII	AP 2016	AP 2017	Total ACM	PPEF 2008	PPEF I-7	PPEF I-8	PPEF I-9	Total PCM	Total MCERA
Vintage Years	2008:2014	2014:2017	2016:2019	2017:2020	2008:2020	2008:2014	2012:2016	2015:2018	2017:2020	2008:2020	2008:2020
# Investments	56	40	55	62	213	34	35	61	51	181	394
Committed	100,000,000	35,000,000	50,000,000	15,000,000	200,000,000	100,000,000	35,000,000	50,000,000	15,000,000	200,000,000	400,000,000
Paid-In	99,000,000	33,950,000	31,306,251	6,255,000	170,511,251	97,417,251	32,691,874	33,831,144	6,521,061	170,461,330	340,972,581
% PI	99%	97%	63%	42%	85%	89%	89%	66%	43%	80%	83%
Uncalled	1,000,000	1,050,000	18,693,749	8,745,000	29,488,749	10,585,498	3,877,974	17,168,186	8,592,504	40,224,162	69,712,911
Distributed	108,893,939	12,250,000	2,800,000	0	123,943,939	99,993,048	13,536,777	3,377,521	651,549	117,558,895	241,502,834
NAV	52,498,371	36,660,318	32,045,052	6,638,951	127,842,692	56,517,117	35,601,146	40,266,200	5,716,887	138,101,350	265,944,042
DPI	1.10	0.36	0.09	0.00	0.73	1.03	0.41	0.10	0.10	0.69	0.71
RVPI	0.53	1.08	1.02	1.06	0.75	0.58	1.09	1.19	0.88	0.81	0.78
TVPI	1.63	1.44	1.11	1.06	1.48	1.61	1.50	1.29	0.98	1.50	1.49
IRR	11.5%	14.3%	7.8%	5.3%	11.6%	11.0%	12.9%	12.2%	-2.3%	11.3%	NA

NA=Not Available, NM=Not Meaningful

Returns are net of FOF fees and expenses

Color Key:

First

Second

Third

Fourth

Refinitiv/Cambridge All Region, All PE Benchmarks - as of 3/31/2020

DPI Upper	1.32	0.33	0.05	0.00	0.90	1.32	0.65	0.17	0.00	0.90	0.90
DPI Median	0.78	0.10	0.00	0.00	0.25	0.78	0.26	0.01	0.00	0.25	0.25
TVPI Upper	2.04	1.57	1.20	1.11	1.72	2.04	1.77	1.39	1.11	1.72	1.72
TVPI Median	1.54	1.28	1.04	0.99	1.29	1.54	1.38	1.14	0.99	1.29	1.29
IRR Upper	19.1%	20.1%	13.3%	9.5%	17.5%	19.1%	19.6%	17.2%	9.5%	17.5%	17.5%
IRR Median	11.5%	11.1%	3.1%	-1.3%	9.4%	11.5%	11.8%	8.3%	-1.3%	9.4%	9.4%

- Both managers' composite returns are second quartile compared to the database on both a DPI and TVPI basis, and currently have similar TVPIs and IRRs. Abbott's portfolio has been more liquid—has a higher DPI ratio.
- MCERA's total composite net TVPI return is second quartile against the database, which is gross of fund-of-funds fees. The median benchmark TVPI for the composite period is 1.29x.
- MCERA's total composite net DPI return is second quartile, above the median of 0.25x.
- The Cambridge sample is composed of partnerships selected for other professionally managed programs, not an unmanaged "universe" or "index" of private equity partnerships.
- Overall performance is competitive with the universe of Fund-of-Funds (FOF) providers.

Managers' Current Vehicles

Manager Strategy and Fundraise Timing

Strategy

Abbott's product provides a flexible investment strategy allowing investors to allocate among 4 pools: 1) Venture Capital and Growth, 2) North America Private Equity, 3) Non-US Private Equity, 4) Global Developed Markets Small Buyouts.

- Abbott's recommended mix is: Venture Capital 30% / US PE 30% / Europe PE 20% / 20% Small Buyouts.
- All four Abbott Annual Program strategy pools are intended to contain opportunistic investments (secondaries and co-investments) up to 20%.

Pathway's product remains a manager-determined mix, with Venture Capital 10-25% / Buyouts 45-70% / Special Situations/Debt 10-40%, with up to 30% Non-US.

- It includes secondaries and co-investments up to 35%.

Timing

Abbott's AP 2021 will hold a first close in mid-December 2020 and the vehicle will begin investing in January 2021.

- For investors in the first close, ACM will waive the annual fee through December 27, 2021.

Pathway's PPEF I-10 fund is open and has closed on \$173 million with another \$35 million expected (excluding any MCERA amount), with a final closing expected in 4Q20. PPEF I-11 expected to launch in mid-2021.

- The vehicle has committed approximately \$96 million (\$85 million to 14 primaries, \$9 million to 11 co-investments, and \$2 million to 1% secondary), with capital called from investors being \$9.6 million.

Both managers provide repeat investment and volume fee discounts for successive funds so that reinvesting clients get the benefit of lower fees.

Manager Reviews: Projected Fee Schedules

Abbott AP 2021 and Pathway PPEF I-10 Vehicles

Abbott Fee Projection

Year	Calendar	Mgmt Fee	Opp Carry	Total
1	2021	37,500	0	37,500
2	2022	75,000	0	75,000
3	2023	112,500	0	112,500
4	2024	150,000	0	150,000
5	2025	150,000	0	150,000
6	2026	150,000	0	150,000
7	2027	150,000	0	150,000
8	2028	150,000	60,000	210,000
9	2029	135,000	60,000	195,000
10	2030	121,500	60,000	181,500
11	2031	109,350	60,000	169,350
12	2032	98,415	60,000	158,415
13	2033	73,811	0	73,811
14	2034	55,358	0	55,358
15	2035	41,519	0	41,519
Total fee		\$1,572,454	\$300,000	\$1,872,454
Yearly Avg.		\$104,830	\$20,000	\$124,830
Avg bp		0.42%	0.08%	0.50%

Pathway Fee Projection

Year	Calendar	Mgmt Fee
1	2020	45,522
2	2021	91,043
3	2022	136,565
4	2023	182,087
5	2024	182,087
6	2025	182,087
7	2026	182,087
8	2027	182,087
9	2028	163,878
10	2029	145,669
11	2030	127,461
12	2031	109,252
13	2032	91,043
14	2033	72,835
15	2034	54,626
Total fee		\$1,948,326
Yearly Avg		\$129,888
Avg bp		0.52%

- The Abbott AP 2021 includes a prior commitment discount applied to 10 years of prior commitments, and an early close discount which waives the first year's management fee (provided MCERA is in the December 2020 first close).
- Pathway's fee represents a 5% discount to MCERA's Base Fee Rate paid for PPEF I-9.
- While Pathway's fee is higher than Abbott's, the 52 basis points average fee is competitive by industry standards for fund-of-funds fees.
 - The fee range for a recent Callan FOF search (\$30mm commitment) is shown in the table:

Metric	Avg Yrly Fee
High	0.91%
Median	0.71%
Average	0.70%
Low	0.49%

Implementation Discussion

Potential Program Modifications

While the private equity program is highly successful, MCERA can adjust its investment program as desired.

Options to consider may be:

1. Continue with Abbott and Pathway managing one half of the portfolio, or some other percentage allocations.
2. Consolidate under a single manager in order to seek greater economies of scale regarding future fees.
 - While fee savings are appealing, there are potential considerations including:
 - Having two successful managers provides MCERA with embedded perspective on relative performance, and provides investment diversification beyond that available with a single manager.
 - The two manager's have moderate overlap with high-conviction partnerships affording MCERA a larger exposure to the best GPs than may be available with a single manager.
 - Having two managers provides MCERA with a successful back-up manager at the ready if issues arise.
 - The lower-cost manager also has fewer investment professionals, back office staffing, systems resources, AUM, and a smaller global footprint.
3. Add a different manager, perhaps pursuing a slightly different strategy. Examples might be: secondaries-only, small buyouts-only, venture capital-only, or a regional specialty such as Asia/emerging markets.
 - While broadening the strategy array may be appealing, there are potential considerations including:
 - Management fees for specialty funds or niche strategies will be higher than MCERA's current managers, and may include a carry on primary partnerships.
 - Adding additional managers will increase program complexity and administrative burden, with no certainty of performance improvement.

Summary

Private Equity Pacing and Reinvestment

- The plan achieved its 8% private equity target in 2016, and is now slightly overfunded at 10.3%, but well within its 12% range.
- Both managers have stable organizations and continue to perform well relative to the peer group database, both at the firm composite level and specific to MCERA's holdings.
- MCERA has not made a new FOF vehicle commitment since the 2016 pacing review, and has worked down its overage of uncalled capital.
- Abbott's AP 2021 fund will begin investing in 1Q21. Investors in the December first close received an additional fee discount (a waiver of 2021 fees).
- Pathway has started investing PPEF I-10 with about 45% of the vehicle committed to underlying investments, and anticipates a final close in the 4th quarter.
- New FOF commitments in 2021 totaling \$50 million are necessary to continue dollar-cost-averaging by vintage year and maintain its targeted 8% exposure in the long-term.
 - Both managers' prior funds have been fully committed.
- Callan suggests that new vehicle commitments totaling \$50 million be made prior to year-end 2020.
- Callan suggests approval for Staff to initiate the legal documentation for new vehicle commitments totaling \$50 million to be closed prior to year-end.

Callan

Appendix

Introducing Private Equity

Rationale, Pros and Cons

- Definition: Private unlisted investments in operating companies, typically accessed through limited partnerships
- Private equity is an additional tool that investors can employ to finance a future payment stream
- It provides a differentiated return stream and diversification
- Addresses a different opportunity set – private companies
- While commonly viewed as a separate asset class, it is an extension of equity
- The key benefit sought from private equity is to earn a rate of return in excess of the returns of publicly traded stocks and bonds
- The primary drawbacks are illiquidity and program complexity

Private Equity is “Different” from Public Equity—a “Plus”

Rationale, Pros and Cons

- Rationale:

- Similarity to Public Equity: Revenues – Expenses = Earnings
- Control over value-improvement is the key differentiator from public equities

- Benefits:

- Private equity market is fragmented (no central marketplace) and unregulated
 - Creates opportunities for GPs with skill to add value
- Active execution and control of value-creation plans
 - Grow companies fast, use leverage to the degree applicable
 - Bring best resources to companies: management, boards, customers
 - Managed for long-term gain, not quarterly earnings
 - Privately negotiated pricing and financing structures to maximize equity value

- Challenges:

- Private equity is illiquid and “implementation” is the key risk to being successful
- Return calculation and benchmarking methodology differs from public securities
 - Performance data is not publicly available
- The “J-curve” effect can potentially detract from short-term performance at program outset

Five Types of Private Equity Strategies

Private Equity Addresses a Full Spectrum of Corporate Financing Needs

- Buyouts
 - Mature businesses in traditional industries
 - Mega, Large, Middle-Market, Small
- Special Situations
 - Tend to be larger company corporate finance funds that fall outside other categories (“Other” segment)
 - Industry-Focused, Multiple-Strategy, Secondary
- Venture Capital
 - Nascent growing companies in technology, health care, retail and other large market sectors
 - Early-, Multi-, Late-Stage
- Subordinated Debt
 - Private high yield debt with equity participation
 - Large, Small/Captive, Independent
- Distressed Debt/Restructuring
 - Rejuvenate good companies that have financial woes, generally large traditional mature companies
 - Senior Secured, Equity Infusion

How Private Equity Works

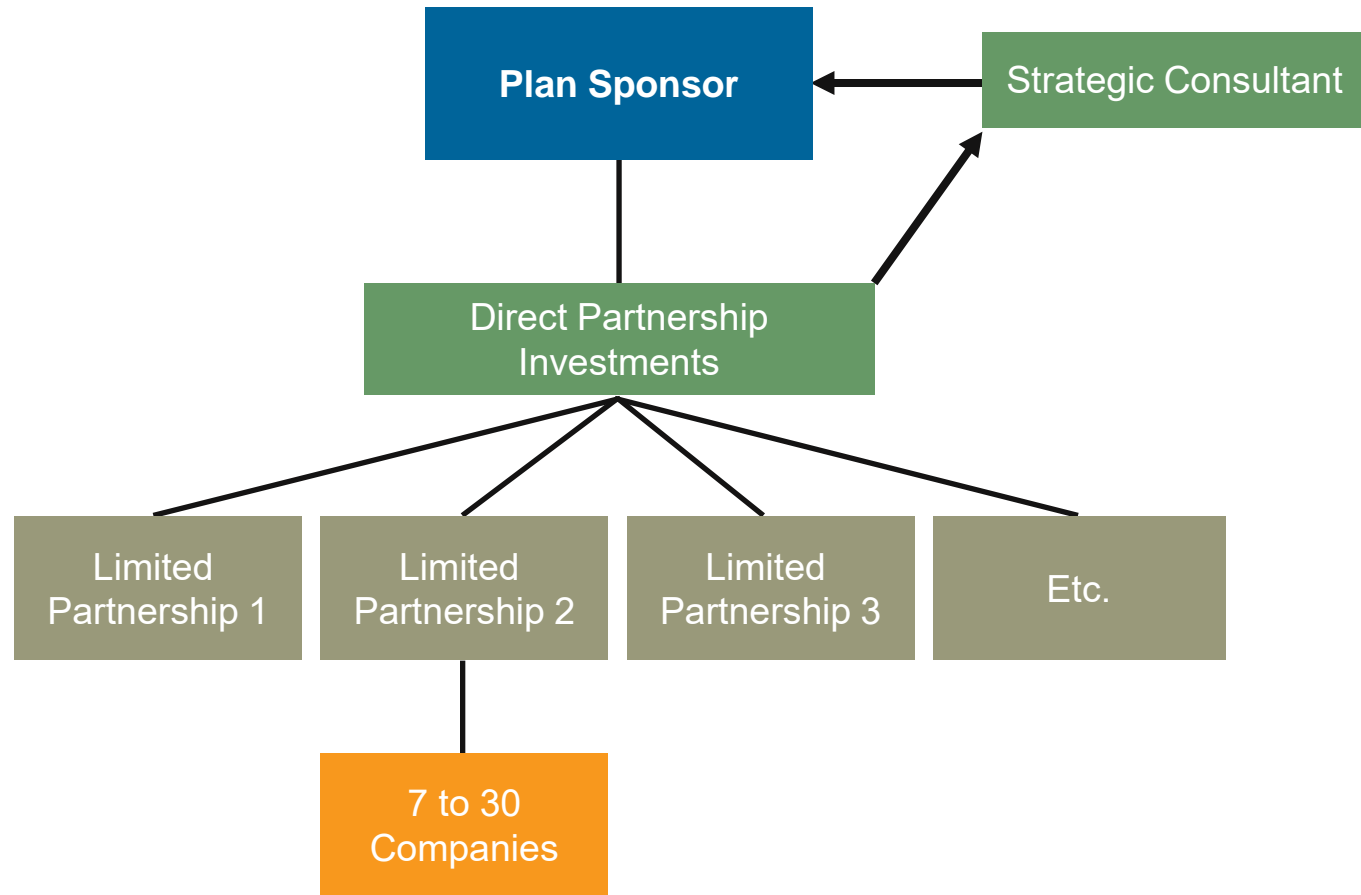
Private Equity Partnerships Program Structure

Policy
Strategic Planning
Performance Evaluation

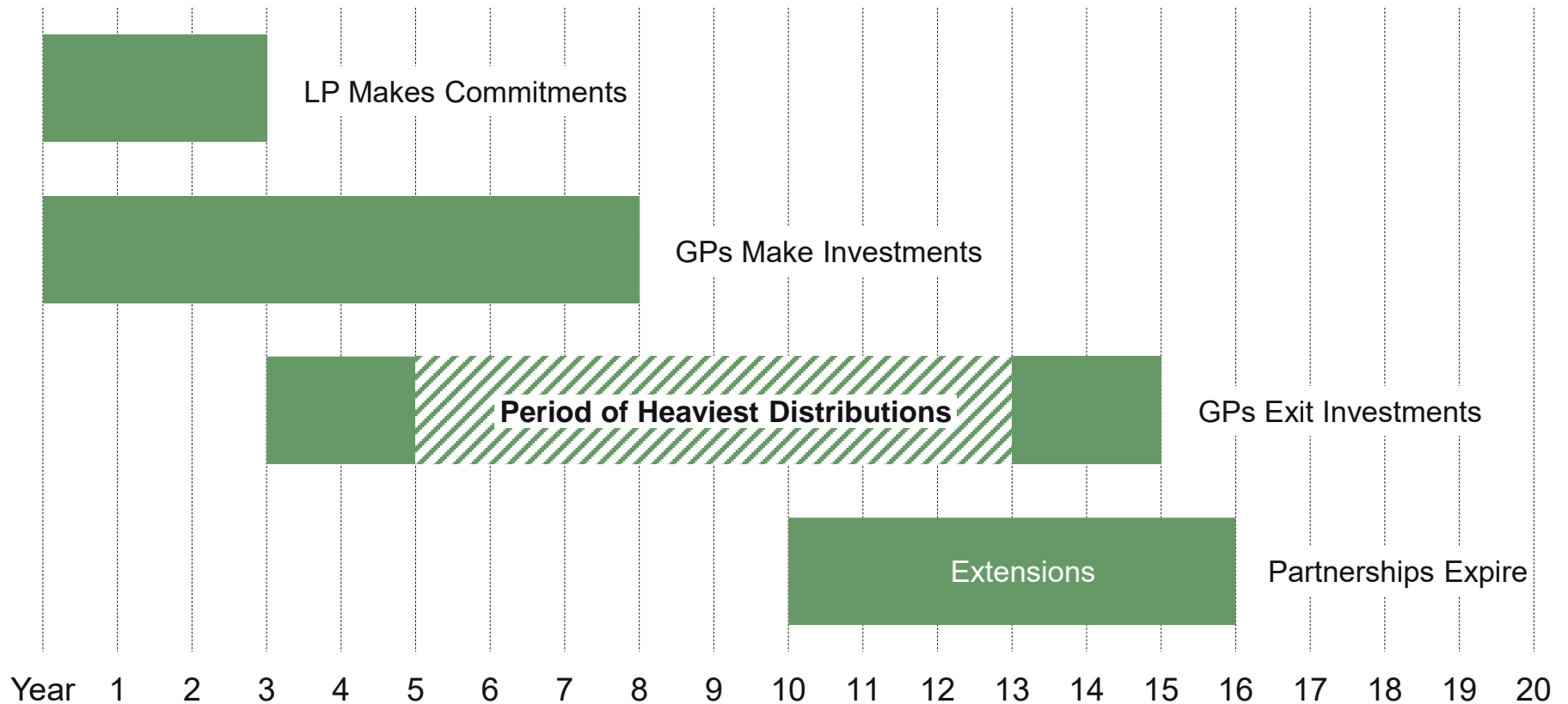
Proactive Security Selection
Active Management
Reporting

Mini-Conglomerate
(Security)

Divisions



Private Equity Investment Timeline



- Private equity is illiquid and requires a long time horizon.
- Decisions made today last 10 to 15 years.

Source: Private Equity Analyst

Private Equity Returns

Why Bother?

Private Equity Performance Database – Pooled Horizon IRRs

Through March 31, 2020 – Returns are Net of Fees

Strategy	1 Year	3 Years	5 Years	10 Years	15 Years	20 Years
All Venture	9.1%	14.6%	11.2%	14.9%	11.4%	5.7%
All Buyouts	0.8%	10.7%	11.3%	13.3%	12.3%	11.0%
Mezzanine	2.4%	8.7%	8.8%	10.6%	10.2%	7.5%
All Private Equity	2.2%	10.1%	10.5%	12.9%	11.7%	9.3%
Russell 3000	-7.0%	4.0%	5.7%	10.2%	7.5%	4.9%

Source: Thomson ONE

- “All Private Equity” outperforms public stocks over all the horizons.
 - Approximately 4% over 20 years
- There can be large return differences between strategy types over time.
 - Each strategy has contributed to success at various times.
- Venture Capital returns lagged broad private equity after the technology bust (20-year horizon) but have recovered strongly since the financial crisis (10-year horizon).
- Private equity has provided a competitive return with public markets since the Global Financial Crisis, and private equity does not decline as much during downturns.
 - During the financial crisis, PE declined about 25% versus 35% to 40% for public stocks.

Glossary of Terms

- NAV = Net Asset Value
 - Also referred to as residual value, represents the value of investments remaining in the portfolio.
- IRR = Internal Rate of Return (Since Inception Capital-Weighted Return Percentage)
 - The nominal return target for MCERA's private equity program is a 12% IRR.
- TVPI = Total Value to Paid-in Ratio $((\text{Distributed Capital} + \text{NAV}) / \text{Paid-In Capital})$
 - The TVPI ratio adds cumulative distributions and the current net asset value to get a total valuation. The total current valuation is then divided by the cumulative amount paid-in to get a profitability ratio.
 - A TVPI of 1.23x means that for every dollar contributed to the portfolio, the current value created is \$1.23 (a 23 cent profit).
- DPI = Distributed to Paid-In Ratio $(\text{Distributed Capital} / \text{Paid-In Capital})$
 - The DPI ratio is the cumulative amount distributed divided by the cumulative amount paid-in to the portfolio.
 - A DPI of 0.31x means that for every dollar contributed to the portfolio, 31 cents has been returned in cash.
- RVPI = Residual Value to Paid-In Ratio $(\text{Residual Value [NAV]} / \text{Paid-In Capital})$
 - The RVPI ratio is the current “residual value” (NAV) divided by the cumulative amount paid-in to the portfolio. Although total return (TVPI) and liquidity return (DPI) measures are considered to be more informative indicators of performance, RVPI provides insight into the role of unrealized value (as a component of total value) as a vintage year develops over time.

Callan



October 27, 2020

Marin County Employees' Retirement Association

Private Equity Fee Disclosure:
California Government Code Section
7514.7

Gary Robertson

Private Equity Consulting

Jim Callahan, CFA

Fund Sponsor Consulting

Anne Heaphy

Fund Sponsor Consulting

Discussion Topics

1. Private Equity Fee Summary
2. Appendix

Callan

Private Equity Fee Summary

Background

California Government Code Section 7514.7

- A new private funds disclosure law that focuses primarily on fees paid became effective 1/1/17, requiring various additional information items be provided to California Public Fund investors.
- Annual disclosure of the information provided is required to be made by public funds.
- MCERA collected fee information from Pathway and Abbott based on a well-developed template developed by the Institutional Limited Partners Association (ILPA) to promote thorough fee transparency.
- The ILPA template is primarily oriented toward direct partnerships, which have more complex fee structures than the fund-of-funds in which MCERA invests; although the template also covers fund-of-funds.
- Callan was asked to summarize for the Board the fee information collected by the managers.
- Callan compiled the information for the individual holdings into two tables on the follow pages, and the managers' original fee sheets are provided in the Appendix.
- MCERA has adopted calendar year fee information consistent with industry practices, and has worked with the managers to standardize uniformity of information to the degree practicable.

MCERA Fee Disclosure

Private Equity Fee Summary: Annual

MCERA Private Equity Fees Expenses and Incentive Allocations						Abbott Capital Annual						Pathway Capital Annual					
Category	LTM	LTM	LTM	LTM	Total ACM	LTM	LTM	LTM	LTM	Total PCM	Combined Managers 12-Month Costs	LTM	LTM	LTM	LTM	Total PCM	Combined Managers 12-Month Costs
	01/01/2019	01/01/2019	01/01/2019	01/01/2019	01/01/2019	01/01/2019	01/01/2019	01/01/2019	01/01/2019	01/01/2019		01/01/2019	01/01/2019	01/01/2019	01/01/2019	01/01/2019	
	12/31/2019	12/31/2019	12/31/2019	12/31/2019	12/31/2019	12/31/2019	12/31/2019	12/31/2019	12/31/2019	12/31/2019		PPEF 2008	PPEF I-7	PPEF I-8	PPEF I-9	12/31/2019	
	ACE VI	ACE VII	AP 16	AP 17													
<u>Fees and Carried Interest</u>																	
Management Fees - Gross of Offsets, Waivers, and Rebates	529,801	340,000	265,000	56,250	1,191,051	628,533	315,000	403,548	78,827	1,425,908	2,616,959						
Incentive Allocation Paid	106,061	0	16,880	1,182	124,123	0	0	0	0	0	124,123						
Accrued Incentive Allocation - Period Change	4,369	25,621	13,304	30,991	74,285	0	0	0	0	0	74,285						
Total Received by GPs and Related Parties	640,231	365,621	295,184	88,423	1,389,459	628,533	315,000	403,548	78,827	1,425,908	2,815,367						
<u>Expenses</u>																	
Audit and Tax Preparation	14,619	12,994	44,312	5,228	77,153	54,887	20,106	18,616	4,432	98,041	175,194						
Bank Fees	(26)	0	318	0	292	0	0	0	0	0	292						
Legal	191	977	791	0	1,959	0	8	1,350	1,303	2,661	4,620						
Organization Costs	0	0	0	0	0	0	0	0	0	0	0						
Other*	831	1,464	3,577	817	6,689	260	(23)	36,241	4,969	41,447	48,136						
Interest Expense	0	1,893	0	0	1,893	0	0	0	11,124	11,124	13,017						
Other (Income) Expense+	0	0	0	0	0	0	0	0	0	0	0						
Total Expenses	15,615	17,328	48,998	6,045	87,986	55,147	20,091	56,207	10,704	153,273	241,259						
Total Fund-of-Funds Managers Fees and Expenses	655,846	382,949	344,182	94,468	1,477,445	683,680	335,091	459,755	89,531	1,579,181	3,056,626						
<u>Underlying Partnerships</u>																	
Management Fees - Net of Offsets, Waivers, and Rebates	532,156	401,324	726,798	164,281	1,824,559	NA	NA	NA	NA	0	1,824,559						
Expenses Paid	141,056	53,431	329,689	74,315	598,491	NA	NA	NA	NA	0	598,491						
Incentive Allocation Paid	2,251,824	386,524	105,272	306	2,743,926	NA	NA	NA	NA	0	2,743,926						
Accrued Incentive Allocation - Period Change	2,406,221	1,586,007	890,499	118,697	5,001,424	NA	NA	NA	NA	0	5,001,424						
Total Underlying Partnerships - Net Fees, Expenses, and Incentive Allocations	5,331,257	2,427,286	2,052,258	357,599	10,168,400	4,076,367	2,681,711	2,933,872	1,685,946	11,377,896	21,546,296						
Total FOF and Underlying Partnership Fees and Expenses	5,987,103	2,810,235	2,396,440	452,067	11,645,845	4,760,047	3,016,802	3,393,627	1,775,477	12,957,077	24,602,922						

*ACM: Other Expenses are Advisory Board, Annual Meeting, and Delaware Registration related

+ACM: Other (Income)/Expense is syndication costs and closing interest. Syndication costs are accounted for as a reduction to partner's capital, not an income statement expense.

*PCM: Other Expenses are State Tax, Fidelity Bond, and Registered Agent, and Other related

PCM: Gross management fees are generally not reported by the underlying investment partnerships, and therefore, amounts are based on net management fees.

NA = Not Available

- Calendar year 2019 values are shown in the table for each manager, and the combined total.
- The top table summarizes the fees (management fee and carried interest) and expenses paid by MCERA for the FOF vehicles.
- The bottom table is an estimate of fees (management fees and carried interest) and expenses paid by the FOFs to underlying partnerships.
- Pathway was not able to provide underlying partnership detail.

MCERA Fee Disclosure

Private Equity Fee Summary: Since Inception

MCERA Private Equity Fees Expenses and Incentive Allocations						Abbott Capital Annual						Pathway Capital Annual					
Category	Since Inception 03/31/2008 ACE VI	Since Inception 04/23/2013 ACE VII	Since Inception 02/01/2016 AP 16	Since Inception 01/26/2017 AP 17	Total ACM 03/31/2008 12/31/2019	Since Inception 12/26/2008 PPEF 2008	Since Inception 02/07/2013 PPEF I-7	Since Inception 03/23/2015 PPEF I-8	Since Inception 02/07/2017 PPEF I-9	Total PCM 12/26/2008 12/31/2019	Combined Managers Since Inception Costs						
<u>Fees and Carried Interest</u>																	
Management Fees - Gross of Offsets, Waivers, and Rebates	8,194,293	1,530,000	596,250	93,750	10,414,293	9,368,804	2,172,625	1,321,621	150,230	13,013,280	23,427,573						
Incentive Allocation Paid	106,061	0	16,880	1,182	124,123	0	0	0	0	0	124,123						
Accrued Incentive Allocation	318,950	265,691	112,866	30,991	728,498	0	0	0	0	0	728,498						
Total Received by GPs and Related Parties	8,619,304	1,795,691	725,996	125,923	11,266,914	9,368,804	2,172,625	1,321,621	150,230	13,013,280	24,280,194						
<u>Expenses</u>																	
Audit and Tax Preparation	110,120	60,827	102,011	9,099	282,057	380,782	86,261	48,293	6,330	521,666	803,723						
Bank Fees	530	158	1,067	0	1,755	0	0	0	0	0	1,755						
Legal	5,299	5,627	1,752	1	12,679	28,501	8,402	18,680	6,265	61,848	74,527						
Organization Costs	103,483	58,002	138,234	22,810	322,529	21,852	28,433	0	16,740	67,025	389,554						
Other*	15,146	5,601	9,766	1,904	32,417	28,671	(8)	73,897	5,118	107,678	140,095						
Interest Expense	0	24,003	0	0	24,003	0	0	0	11,124	11,124	35,127						
Other Income (Expense)+	10,880	34,817	19,766	2,510	67,973	0	0	0	0	0	67,973						
Total Expenses	245,458	189,035	272,596	36,324	743,413	459,806	123,088	140,870	45,577	769,341	1,512,754						
Total Fund-of-Funds Managers Fees and Expenses	8,864,762	1,984,726	998,592	162,247	12,010,327	9,828,610	2,295,713	1,462,491	195,807	13,782,621	25,792,948						
<u>Underlying Partnerships</u>																	
Management Fees - Net of Offsets, Waivers, and Rebates	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA						
Expenses Paid	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA						
Incentive Allocation Paid	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA						
Accrued Incentive Allocation - Period Change	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA						
Total Underlying Partnerships - Net Fees, Expenses, and Incentive Allocations*	NA	NA	NA	NA	NA	33,472,900	8,366,221	7,064,002	2,751,959	51,655,082	NA						
Total FOF and Underlying Partnership Fees and Expenses	NA	NA	NA	NA	NA	43,301,510	10,661,934	8,526,493	2,947,766	65,437,703	NA						

*ACM: Other Expenses are Advisory Board, Annual Meeting, and Delaware Registration related

+ACM: Other (Income)/Expense is syndication costs and closing interest. Syndication costs are accounted for as a reduction to partner's capital, not an income statement expense.

*PCM: Other Expenses are State Tax, Fidelity Bond, and Registered Agent, and Other related

PCM: Gross management fees are generally not reported by the underlying investment partnerships, and therefore, amounts are based on net management fees.

NA = Not Available

- Since inception through 12/31/2019 values are shown in the table for each manager, and the combined total.
- Abbott was not able to provide since inception totals for the historical underlying direct partnerships.

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Appendix



Abbott Capital Private Equity Fund VI, L.P.	QTD	YTD	Since Inception	QTD	YTD	Since Inception	QTD	YTD	Since Inception
	(Oct-19 -	(Jan-19 -	(Mar-08 -	(Oct-19 -	(Jan-19 -	(Mar-08 -	(Oct-19 -	(Jan-19 -	(Mar-08 -
	Dec-19)	Dec-19)	Dec-19)	Dec-19)	Dec-19)	Dec-19)	Dec-19)	Dec-19)	Dec-19)

A. Capital Account Statement for LP #5

A.1 NAV Reconciliation and Summary of Fees, Expenses & Incentive Allocation		LP #5's Allocation of Total Fund			Total Fund (incl. GP Allocation)			GP's Allocation of Total Fund		
Beginning NAV - Net of Incentive Allocation		\$64,803,452	\$72,525,652	\$0	\$656,712,111	\$736,068,541	\$0	\$9,836,436	\$10,581,359	\$0
Contributions - Cash & Non-Cash		\$250,000	\$500,000	\$99,000,000	\$2,555,125	\$5,110,250	\$1,011,829,604	\$25,875	\$51,750	\$10,246,500
Distributions - Cash & Non-Cash (input positive values)		\$4,393,939	\$18,893,939	\$105,393,939	\$45,958,237	\$194,254,030	\$1,079,260,634	\$1,551,926	\$3,104,034	\$12,990,051
Total Cash / Non-Cash Flows (contributions, less distributions)		(4,143,939)	(18,393,939)	(6,393,939)	(43,403,112)	(189,143,780)	(67,431,030)	(1,526,051)	(3,052,284)	(2,743,551)
Net Operating Income (Expense):										
(Management Fees – Gross of Offsets, Waivers & Rebates):		(125,479)	(529,801)	(8,194,293)	(1,405,661)	(5,935,014)	(91,795,365)	0	0	0
Management Fee Rebate		0	0	0	0	0	0	0	0	0
(Partnership Expenses - Total):		(5,735)	(15,615)	(234,578)	(58,611)	(159,589)	(1,932,044)	(593)	(1,616)	(19,565)
(Partnership Expenses – Accounting, Administration & IT)		0	0	0	0	0	0	0	0	0
(Partnership Expenses – Audit & Tax Preparatory)		(5,083)	(14,619)	(110,120)	(51,949)	(149,415)	(1,125,484)	(526)	(1,513)	(11,397)
(Partnership Expenses – Bank Fees)		35	26	(530)	360	270	(5,413)	4	3	(55)
(Partnership Expenses – Custody Fees)		0	0	0	0	0	0	0	0	0
(Partnership Expenses – Due Diligence)		0	0	0	0	0	0	0	0	0
(Partnership Expenses – Legal)		0	(191)	(5,299)	0	(1,950)	(54,158)	0	(20)	(548)
(Partnership Expenses – Organization Costs)		0	0	(103,483)	0	0	(592,191)	0	0	(5,997)
(Partnership Expenses – Other Travel & Entertainment)		0	0	0	0	0	0	0	0	0
(Partnership Expenses – Other*)		(687)	(831)	(15,146)	(7,022)	(8,494)	(154,798)	(71)	(86)	(1,568)
Total Offsets to Fees & Expenses (applied during period):		0	0	0	0	0	0	0	0	0
Offset Categories			% Offset to LP #5*							
Advisory Fee Offset		0	80%	0	0	0	0	0	0	0
Broken Deal Fee Offset		0	80%	0	0	0	0	0	0	0
Transaction & Deal Fee Offset		0	80%	0	0	0	0	0	0	0
Directors Fee Offset		0	100%	0	0	0	0	0	0	0
Monitoring Fee Offset		0	100%	0	0	0	0	0	0	0
Capital Markets Fee Offset		0	100%	0	0	0	0	0	0	0
Organization Cost Offset		0	80%	0	0	0	0	0	0	0
Placement Fee Offset		0	100%	0	0	0	0	0	0	0
Other Offset*		0	80%	0	0	0	0	0	0	0
Reconciliation for Unapplied Offset Balance (Roll-forward)	Unapplied Offset Balance (Roll-forward) - Beginning Balance	0	0	0	0	0	0	0	0	0
	Plus: Total Offsets to Fees & Expenses (recognized during period)	0	0	0	0	0	0	0	0	0
	Less: Total Offsets to Fees & Expenses (applied during period)	0	0	0	0	0	0	0	0	0
	Unapplied Offset Balance (Roll-forward) - Ending Balance	0	0	0	0	0	0	0	0	0
(Total Management Fees & Partnership Expenses, Net of Offsets & Rebates, Gross of Fee Waiver)		(131,214)	(545,416)	(8,428,871)	(1,464,272)	(6,094,603)	(93,727,409)	(593)	(1,616)	(19,565)
Fee Waiver		0	0	0	0	0	0	0	0	0
Interest Income		0	108	12,071	0	1,099	123,374	0	11	1,249
Dividend Income		0	0	0	0	0	0	0	0	0
(Interest Expense)		0	0	0	0	0	0	0	0	0
Other Income/(Expense)*		0	947	69,762	0	9,674	311,063	0	98	2,283
Syndication Costs*		0	0	(10,880)	0	0	(111,198)	0	0	(1,126)
Total Net Operating Income / (Expense)		(131,214)	(544,361)	(8,357,918)	(1,464,272)	(6,083,830)	(93,404,170)	(593)	(1,507)	(17,159)
(Placement Fees)		0	0	0	0	0	0	0	0	0
Realized Gain / (Loss)		2,901,341	12,365,844	66,148,324	30,737,159	127,469,122	677,153,030	1,384,289	2,363,865	7,930,351
Change in Unrealized Gain / (Loss)		(388,629)	(2,912,185)	11,644,544	(5,075,163)	(30,803,330)	121,188,893	(1,143,404)	(1,340,756)	3,381,036
Ending NAV - Net of Incentive Allocation		\$63,041,011	\$63,041,011	\$63,041,011	\$637,506,723	\$637,506,723	\$637,506,723	\$8,550,677	\$8,550,677	\$8,550,677
Reconciliation for Accrued Incentive Allocation	Accrued Incentive Allocation - Starting Period Balance	(320,826)	(314,581)	0	0	0	0	3,279,007	3,215,171	0
	Incentive Allocation - Paid During the Period	106,061	106,061	106,061	0	0	0	(1,084,000)	(1,084,000)	(1,084,000)
	Accrued Incentive Allocation - Periodic Change	(104,185)	(110,430)	(425,011)	0	0	0	1,064,819	1,128,655	4,343,826
	Accrued Incentive Allocation - Ending Period Balance	(318,950)	(318,950)	(318,950)	0	0	0	3,259,826	3,259,826	3,259,826
	Ending NAV - Gross of Accrued Incentive Allocation	\$63,359,961	\$63,359,961	\$63,359,961	\$637,506,723	\$637,506,723	\$637,506,723	\$5,290,851	\$5,290,851	\$5,290,851



Abbott Capital Private Equity Fund VI, L.P.	QTD	YTD	Since Inception	QTD	YTD	Since Inception	QTD	YTD	Since Inception
	(Oct-19 - Dec-19)	(Jan-19 - Dec-19)	(Mar-08 - Dec-19)	(Oct-19 - Dec-19)	(Jan-19 - Dec-19)	(Mar-08 - Dec-19)	(Oct-19 - Dec-19)	(Jan-19 - Dec-19)	(Mar-08 - Dec-19)
A.2 Commitment Reconciliation:	LP #5's Allocation of Total Fund			Total Fund (incl. GP Allocation)			GP's Allocation of Total Fund		
Total Commitment	\$100,000,000	\$100,000,000	\$100,000,000	\$1,022,050,100	\$1,022,050,100	\$1,022,050,100	\$10,350,000	\$10,350,000	\$10,350,000
Beginning Unfunded Commitment:	\$1,250,000	\$1,500,000	\$100,000,000	\$12,775,621	\$15,330,746	\$1,022,050,100	129,375	155,250	10,350,000
(Less Contributions)	(250,000)	(500,000)	(99,000,000)	(2,555,125)	(5,110,250)	(1,011,829,604)	(25,875)	(51,750)	(10,246,500)
Plus Recalable Distributions (1)	0	0	0	0	0	0	0	0	0
(Less Expired/Released Commitments)	0	0	0	0	0	0	0	0	0
+/- Other Unfunded Adjustment	0	0	0	0	0	0	0	0	0
Ending Unfunded Commitment	\$1,000,000	\$1,000,000	\$1,000,000	\$10,220,496	\$10,220,496	\$10,220,496	\$103,500	\$103,500	\$103,500
A.3 Miscellaneous** (input positive values):	LP #5's Allocation of Total Fund			Total Fund (incl. GP Allocation)			GP's Allocation of Total Fund		
Incentive Allocation - Earned (period-end balance)****	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Incentive Allocation - Amount Held in Escrow (period-end balance)****	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Returned Clawback****	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Capitalized Transaction Fees & Exp. - Paid to Non-Related Parties****	\$0	\$0	\$0	\$0	\$0	\$0			
Distributions Relating to Fees & Expenses****	\$0	\$0	\$0	\$0	\$0	\$0			
Fund of Funds: Gross Fees, Exp. & Incentive Allocation paid to the Underlying Funds****	\$0	\$0	\$0	\$0	\$0	\$0			

B. Schedule of Fees, Incentive Allocation & Reimbursements Received by the GP & Related Parties, with Respect to the Fund and Portfolio Companies/Investments Held by the Fund

B.1 Source Allocation:		LP #5's Allocation of Total Fund			Cumulative LPs' Allocation of Total Fund			Affiliated Positions***		
With Respect to the Fund's LPs	Management Fees - Net of Rebates, Gross of Offsets and Waivers	125,479	529,801	8,194,293	1,405,661	5,935,014	91,795,365			
	Partnership Expenses - Paid to GP & Related Parties - Gross of Offsets	0	0	0	0	0	0			
	(Less Total Offsets to Fees & Expenses - applied during period)	0	0	0	0	0	0			
	Capitalized Transaction Fees & Exp. - Paid to GP & Related Parties****	0	0	0	0	0	0			
	Accrued Incentive Allocation - Periodic Change	104,185	110,430	425,011	1,064,819	1,128,655	4,343,826			
With Respect to the Fund's Portfolio Companies/ Invs.	Total Fees with Respect to Portfolio Companies/Investments:	0	0	0	0	0	0	\$0	\$0	\$0
	Advisory Fees****	0	0	0	0	0	0	0	0	0
	Broken Deal Fees****	0	0	0	0	0	0	0	0	0
	Transaction & Deal Fees****	0	0	0	0	0	0	0	0	0
	Directors Fees****	0	0	0	0	0	0	0	0	0
	Monitoring Fees****	0	0	0	0	0	0	0	0	0
	Capital Markets Fees****	0	0	0	0	0	0	0	0	0
	Other Fees*****	0	0	0	0	0	0	0	0	0
	Total Reimbursements for Travel & Administrative Expenses****	0	0	0	0	0	0	0	0	0
Total Received by the GP & Related Parties		\$229,664	\$640,231	\$8,619,304	\$2,470,480	\$7,063,669	\$96,139,191	\$0	\$0	\$0

*Current offset percentages for the specific LP; As offset calculations may change over the life of the Fund, the current offset percentages may not be applicable for calculating the non-QTD offset balances

**Content in A.3 aims to provide users with additional context on the balances provided in other sections; Some of the balances in A.3 represent a sub-total for an amount provided in another section; Balances in this section should be entered as a positive amount, even though similar balances in other sections may typically be presented as a negative amount; To prevent double-counting, or other miscalculations, users should avoid netting balances in A.3 with amounts in other sections

***Balances in this section represent fees & reimbursements received by the GP/Manager/Related Parties with respect to the Fund's investments that are not allocable to the Total Fund (i.e. allocated to ownership interests of LP co-investors & other vehicles managed-by/affiliated-with the GP/Manager/Related Party); To avoid double-counting, LP # 5's Allocation of Total Fund should not reflect any pro-rata share of these positions; Balances in this section, plus the balances in the "Cumulative LPs' Allocation of Total Fund" section, should equal the total fees/reimbursements received by the GP/Manager/Related Parties With Respect to the Fund's Portfolio Companies/Invs.

*A description should be provided in the footnote section for any amount(s) listed in this row for the year-to-date period

Shaded/Italicized/Grouped Content Represents Level 2 Data**Footnotes for any YTD (Total Fund) expenses, fees & offsets (including any "other" balances)**

Partnership Expenses-Other amounts include advisory board expenses, Delaware annual filing fees and Delaware agent representation expenses.

Other Income/ (Expense) is comprised of miscellaneous income and closing interest. Closing interest is paid by limited partners admitted to the Abbott Fund at subsequent closes. Syndication costs are not recorded as an expense item on the Fund's income statement. Syndication costs are accounted for as a direct reduction to partner's capital.

(1) Recalable Distributions - Pursuant to the provisions outlined in the limited partnership agreement, Limited Partners may be required to return to the Fund all distributions received.



Fund of Funds Template: Fees, Expenses & Incentive Allocation to Underlying Funds (values in "Parent" Fund Currency)

ILPA Reporting Template (v. 1.1) - This packet was last updated on Oct. 17, 2016

"Parent" Fund Name:	Abbott Capital Private Equity Fund VI, L.P.
"Parent" Fund Currency:	USD
"Parent" Fund Size:	\$1,022,050,100
LP #5 Commitment to "Parent" Fund:	\$100,000,000
Period Ending:	Dec. 31, 2019

Underlying "Child" Fund				Fees, Expenses & Incentive Allocation Paid by "Parent" Fund to "Child" Funds (Total Fund, Incl. GP Allocation - Reported in "Parent" Fund Currency)														
				Management Fees – Gross of Offsets, Waivers & Rebates			Management Fees – Net of Offsets, Waivers & Rebates			Partnership Expenses - Total*			Incentive Allocation - Paid			Incentive Allocation - Periodic Change in Accrued		
Name	Commitment Amount	Vintage	Currency	QTD	YTD	Since Inception	QTD	YTD	Since Inception	QTD	YTD	Since Inception	QTD	YTD	Since Inception	QTD	YTD	Since Inception
MCERA's Share of Aggregate Underlying Portfolio Fund Amounts ¹								\$532,156			\$141,056			\$2,251,824			\$2,406,221	

(1) For Portfolio Fund investments held by Abbott Capital Private Equity Fund VI ("ACE VI"), net management fees, expenses and carried interest allocations and distributions were determined in the following order :

1. Net Management fees, expenses and carried interest allocations and distributions were obtained from the December 31, 2019 year-end fee and expense templates that Abbott requested from the underlying portfolio funds of ACE VI or other capital account information provided by the underlying portfolio funds. Such amounts were then allocated to MCERA based on MCERA's proportionate share of ACE VI.
2. If a template or other capital account information was not provided, fund level net management fees, expenses and carried interest allocations and distributions disclosed in the December 31, 2019 audited portfolio fund financial statements were allocated to ACE VI based on ACE VI's proportionate share of each underlying portfolio fund. ACE VI's proportionate share of net management fees, expenses and carried interest allocations and distributions were then allocated to MCERA based on MCERA's proportionate share of ACE VI. Differences between such estimates and actual amounts likely exist and such differences could be material.

The amounts reflected above are based on information recieved by Abbott and may not reflect actual allocations to MCERA. Differences between estimated and actual amounts may exist and such differences could be material.

In accordance with underlying limited partnership agreements, net management fees may reflect fee waivers in lieu of general partner capital contributions and offsets related to transaction fees, board fees and other items.

* Represents MCERA's share of expenses, other than management fees, allocated to the underlying portfolio funds.



Abbott Capital Private Equity Fund VII, L.P.	QTD	YTD	Since Inception	QTD	YTD	Since Inception	QTD	YTD	Since Inception
	(Oct-19 -	(Jan-19 -	(Apr-13 -	(Oct-19 -	(Jan-19 -	(Apr-13 -	(Oct-19 -	(Jan-19 -	(Apr-13 -
	Dec-19)	Dec-19)	Dec-19)	Dec-19)	Dec-19)	Dec-19)	Dec-19)	Dec-19)	Dec-19)

A. Capital Account Statement for LP #5

A.1 NAV Reconciliation and Summary of Fees, Expenses & Incentive Allocation		LP #5's Allocation of Total Fund			Total Fund (incl. GP Allocation)			GP's Allocation of Total Fund		
Beginning NAV - Net of Incentive Allocation		\$38,557,528	\$33,983,884	\$0	\$302,724,831	\$266,862,128	\$0	\$7,614,099	\$6,711,699	\$0
Contributions - Cash & Non-Cash		\$1,575,000	\$2,275,000	\$33,950,000	\$12,297,600	\$17,763,200	\$265,081,601	\$226,305	\$326,885	\$4,878,130
Distributions - Cash & Non-Cash (input positive values)		\$2,100,000	\$3,500,000	\$12,250,000	\$16,354,551	\$27,378,290	\$95,880,518	\$314,313	\$553,190	\$1,992,668
Total Cash / Non-Cash Flows (contributions, less distributions)		(525,000)	(1,225,000)	21,700,000	(4,056,951)	(9,615,090)	169,201,083	(88,008)	(226,305)	2,885,462
Net Operating Income (Expense):										
(Management Fees – Gross of Offsets, Waivers & Rebates):		(85,000)	(340,000)	(1,530,000)	(664,375)	(2,657,500)	(12,090,625)	0	0	0
Management Fee Rebate		0	0	0	0	0	0	0	0	0
(Partnership Expenses - Total):		(6,058)	(15,434)	(130,216)	(47,295)	(120,512)	(1,025,228)	(869)	(2,218)	(18,730)
(Partnership Expenses – Accounting, Administration & IT)		0	0	0	0	0	0	0	0	0
(Partnership Expenses – Audit & Tax Preparatory)		(5,546)	(12,994)	(60,827)	(43,300)	(101,456)	(474,940)	(797)	(1,867)	(8,740)
(Partnership Expenses – Bank Fees)		0	0	(158)	0	0	(1,234)	0	0	(23)
(Partnership Expenses – Custody Fees)		0	0	0	0	0	0	0	0	0
(Partnership Expenses – Due Diligence)		0	0	0	0	0	0	0	0	0
(Partnership Expenses – Legal)		0	(977)	(5,627)	0	(7,628)	(43,938)	0	(140)	(809)
(Partnership Expenses – Organization Costs)		0	0	(58,002)	0	0	(452,878)	0	0	(8,334)
(Partnership Expenses – Other Travel & Entertainment)		0	0	0	0	0	0	0	0	0
(Partnership Expenses – Other*)		(512)	(1,464)	(5,601)	(3,994)	(11,428)	(52,238)	(73)	(210)	(825)
Total Offsets to Fees & Expenses (applied during period):		0	0	0	0	0	0	0	0	0
Offset Categories										
Advisory Fee Offset		0	0	0	0	0	0	0	0	0
Broken Deal Fee Offset		0	0	0	0	0	0	0	0	0
Transaction & Deal Fee Offset		0	0	0	0	0	0	0	0	0
Directors Fee Offset		0	0	0	0	0	0	0	0	0
Monitoring Fee Offset		0	0	0	0	0	0	0	0	0
Capital Markets Fee Offset		0	0	0	0	0	0	0	0	0
Organization Cost Offset		0	0	0	0	0	0	0	0	0
Placement Fee Offset		0	0	0	0	0	0	0	0	0
Other Offset*		0	0	0	0	0	0	0	0	0
Reconciliation for Unapplied Offset Balance (Roll-forward)	Unapplied Offset Balance (Roll-forward) - Beginning Balance	0	0	0	0	0	0	0	0	0
	Plus: Total Offsets to Fees & Expenses (recognized during period)	0	0	0	0	0	0	0	0	0
	Less: Total Offsets to Fees & Expenses (applied during period)	0	0	0	0	0	0	0	0	0
	Unapplied Offset Balance (Roll-forward) - Ending Balance	0	0	0	0	0	0	0	0	0
(Total Management Fees & Partnership Expenses, Net of Offsets & Rebates, Gross of Fee Waiver)		(91,058)	(355,434)	(1,660,216)	(711,670)	(2,778,012)	(13,115,853)	(869)	(2,218)	(18,730)
Fee Waiver		0	0	0	0	0	0	0	0	0
Interest Income		0	23	27	0	177	210	0	3	4
Dividend Income		0	0	0	0	0	0	0	0	0
(Interest Expense)		0	(1,893)	(24,003)	(1)	(14,777)	(187,419)	0	(272)	(3,449)
Other Income/(Expense)*		0	0	59	0	0	8,797	0	0	9
Syndication Costs		0	0	(34,817)	0	0	(271,848)	0	0	(5,003)
Total Net Operating Income / (Expense)		(91,058)	(357,304)	(1,718,949)	(711,671)	(2,792,612)	(13,566,113)	(869)	(2,486)	(27,169)
(Placement Fees)		0	0	0	0	0	0	0	0	0
Realized Gain / (Loss)		574,063	3,114,832	8,888,440	4,482,283	24,320,603	69,400,940	82,485	447,557	1,277,142
Change in Unrealized Gain / (Loss)		1,664,416	4,663,538	11,310,459	12,945,814	36,609,277	90,348,396	189,209	866,450	3,661,480
Ending NAV - Net of Incentive Allocation		\$40,179,949	\$40,179,949	\$40,179,949	\$315,384,306	\$315,384,306	\$315,384,306	\$7,796,915	\$7,796,915	\$7,796,915
Reconciliation for Accrued Incentive Allocation	Accrued Incentive Allocation - Starting Period Balance	(272,207)	(240,070)	0	0	0	0	2,086,274	1,839,963	0
	Incentive Allocation - Paid During the Period	0	0	0	0	0	0	0	0	0
	Accrued Incentive Allocation - Periodic Change	6,517	(25,621)	(265,691)	0	0	0	(49,945)	196,366	2,036,329
	Accrued Incentive Allocation - Ending Period Balance	(265,691)	(265,691)	(265,691)	0	0	0	2,036,329	2,036,329	2,036,329
	Ending NAV - Gross of Accrued Incentive Allocation	\$40,445,640	\$40,445,640	\$40,445,640	\$315,384,306	\$315,384,306	\$315,384,306	\$5,760,586	\$5,760,586	\$5,760,586



Abbott Capital Private Equity Fund VII, L.P.	QTD	YTD	Since Inception	QTD	YTD	Since Inception	QTD	YTD	Since Inception
	(Oct-19 -	(Jan-19 -	(Apr-13 -	(Oct-19 -	(Jan-19 -	(Apr-13 -	(Oct-19 -	(Jan-19 -	(Apr-13 -
	Dec-19)	Dec-19)	Dec-19)	Dec-19)	Dec-19)	Dec-19)	Dec-19)	Dec-19)	Dec-19)

A.2 Commitment Reconciliation:	LP #5's Allocation of Total Fund			Total Fund (incl. GP Allocation)			GP's Allocation of Total Fund		
Total Commitment	\$35,000,000	\$35,000,000	\$35,000,000	\$273,280,000	\$273,280,000	\$273,280,000	\$5,029,000	\$5,029,000	\$5,029,000
Beginning Unfunded Commitment:	\$2,625,000	\$3,325,000	\$35,000,000	\$20,495,999	\$25,961,599	\$273,280,000	377,175	477,755	5,029,000
(Less Contributions)	(1,575,000)	(2,275,000)	(33,950,000)	(12,297,600)	(17,763,200)	(265,081,601)	(226,305)	(326,885)	(4,878,130)
Plus Recallable Distributions (1)	0	0	0	0	0	0	0	0	0
(Less Expired/Released Commitments)	0	0	0	0	0	0	0	0	0
+/- Other Unfunded Adjustment	0	0	0	0	0	0	0	0	0
Ending Unfunded Commitment	\$1,050,000	\$1,050,000	\$1,050,000	\$8,198,399	\$8,198,399	\$8,198,399	\$150,870	\$150,870	\$150,870

A.3 Miscellaneous** (input positive values):	LP #5's Allocation of Total Fund			Total Fund (incl. GP Allocation)			GP's Allocation of Total Fund		
Incentive Allocation - Earned (period-end balance)****	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Incentive Allocation - Amount Held in Escrow (period-end balance)****	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Returned Clawback****	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Capitalized Transaction Fees & Exp. - Paid to Non-Related Parties****	\$0	\$0	\$0	\$0	\$0	\$0			
Distributions Relating to Fees & Expenses****	\$0	\$0	\$0	\$0	\$0	\$0			
Fund of Funds: Gross Fees, Exp. & Incentive Allocation paid to the Underlying Funds****	\$0	\$0	\$0	\$0	\$0	\$0			

B. Schedule of Fees, Incentive Allocation & Reimbursements Received by the GP & Related Parties, with Respect to the Fund and Portfolio Companies/Investments Held by the Fund

B.1 Source Allocation:		LP #5's Allocation of Total Fund			Cumulative LPs' Allocation of Total Fund			Affiliated Positions***		
With Respect to the Fund's LPs	Management Fees - Net of Rebates, Gross of Offsets and Waivers	85,000	340,000	1,530,000	664,375	2,657,500	12,090,625			
	Partnership Expenses - Paid to GP & Related Parties - Gross of Offsets	0	0	0	0	0	0			
	(Less Total Offsets to Fees & Expenses - applied during period)	0	0	0	0	0	0			
	Capitalized Transaction Fees & Exp. - Paid to GP & Related Parties****	0	0	0	0	0	0			
	Accrued Incentive Allocation - Periodic Change	(6,517)	25,621	265,691	(49,945)	196,366	2,036,329			
With Respect to the Fund's Portfolio Companies/ Invs.	Total Fees with Respect to Portfolio Companies/Investments:	0	0	0	0	0	0	\$0	\$0	\$0
	Advisory Fees****	0	0	0	0	0	0	0	0	0
	Broken Deal Fees****	0	0	0	0	0	0	0	0	0
	Transaction & Deal Fees****	0	0	0	0	0	0	0	0	0
	Directors Fees****	0	0	0	0	0	0	0	0	0
	Monitoring Fees****	0	0	0	0	0	0	0	0	0
	Capital Markets Fees****	0	0	0	0	0	0	0	0	0
	Other Fees****.*	0	0	0	0	0	0	0	0	0
	Total Reimbursements for Travel & Administrative Expenses****	0	0	0	0	0	0	0	0	0
	Total Received by the GP & Related Parties	\$78,483	\$365,621	\$1,795,691	\$614,430	\$2,853,866	\$14,126,954	\$0	\$0	\$0

*Current offset percentages for the specific LP; As offset calculations may change over the life of the Fund, the current offset percentages may not be applicable for calculating the non-QTD offset balances

**Content in A.3 aims to provide users with additional context on the balances provided in other sections; Some of the balances in A.3 represent a sub-total for an amount provided in another section; Balances in this section should be entered as a positive amount, even though similar balances in other sections may typically be presented as a negative amount; To prevent double-counting, or other miscalculations, users should avoid netting balances in A.3 with amounts in other sections

***Balances in this section represent fees & reimbursements received by the GP/Manager/Related Parties with respect to the Fund's investments that are not allocable to the Total Fund (i.e. allocated to ownership interests of LP co-investors & other vehicles managed-by/affiliated-with the GP/Manager/Related Party); To avoid double-counting, LP # 5's Allocation of Total Fund should not reflect any pro-rata share of these positions; Balances in this section, plus the balances in the "Cumulative LPs' Allocation of Total Fund" section, should equal the total fees/reimbursements received by the GP/Manager/Related Parties With Respect to the Fund's Portfolio Companies/Invs.

*A description should be provided in the footnote section for any amount(s) listed in this row for the year-to-date period

Shaded/Italicized/Grouped Content Represents Level 2 Data**Footnotes for any YTD (Total Fund) expenses, fees & offsets (including any "other" balances)**

Partnership Expenses-Other amounts include advisory board expenses, Delaware annual filing fees and Delaware agent representation expenses.

Other Income/(Expense) is comprised of syndication costs and closing interest. Closing interest is paid by limited partners admitted to the Abbott Fund at subsequent closes. Syndication costs are not recorded as an expense item on the Fund's income statement. Syndication costs are accounted for as a direct reduction to partner's capital.

(1) Recallable Distributions - Pursuant to the provisions outlined in the limited partnership agreement, Limited Partners may be required to return to the Fund all distributions received.



Fund of Funds Template: Fees, Expenses & Incentive Allocation to Underlying Funds (values in "Parent" Fund Currency)

ILPA Reporting Template (v. 1.1) - This packet was last updated on Oct. 17, 2016

"Parent" Fund Name:	Abbott Capital Private Equity Fund VII, L.P.
"Parent" Fund Currency:	USD
"Parent" Fund Size:	\$273,280,000
LP #5 Commitment to "Parent" Fund:	\$35,000,000
Period Ending:	Dec. 31, 2019

Underlying "Child" Fund				Fees, Expenses & Incentive Allocation Paid by "Parent" Fund to "Child" Funds (Total Fund, Incl. GP Allocation - Reported in "Parent" Fund Currency)														
				Management Fees – Gross of Offsets, Waivers & Rebates			Management Fees – Net of Offsets, Waivers & Rebates			Partnership Expenses - Total*			Incentive Allocation - Paid			Incentive Allocation - Periodic Change in Accrued		
Name	Commitment Amount	Vintage	Currency	QTD	YTD	Since Inception	QTD	YTD	Since Inception	QTD	YTD	Since Inception	QTD	YTD	Since Inception	QTD	YTD	Since Inception
MCERA's Share of Aggregate Underlying Portfolio Fund Amounts*								\$401,324			\$53,431			\$386,524			\$1,586,007	

(1) For Portfolio Fund investments held by Abbott Capital Private Equity Fund VII ("ACE VII"), net management fees, expenses and carried interest allocations and distributions were determined in the following order :

1. Net Management fees, expenses and carried interest allocations and distributions were obtained from the December 31, 2019 year-end fee and expense templates that Abbott requested from the underlying portfolio funds of ACE VII or other capital account information provided by the underlying portfolio funds. Such amounts were then allocated to MCERA based on MCERA's proportionate share of ACE VII.
2. If a template or other capital account information was not provided, fund level net management fees, expenses and carried interest allocations and distributions disclosed in the December 31, 2019 audited portfolio fund financial statements were allocated to ACE VII based on ACE VII's proportionate share of each underlying portfolio fund. ACE VII's proportionate share of net management fees, expenses and carried interest allocations and distributions were then allocated to MCERA based on MCERA's proportionate share of ACE VII. Differences between such estimates and actual amounts likely exist and such differences could be material.

The amounts reflected above are based on information recieved by Abbott and may not reflect actual allocations to MCERA. Differences between estimated and actual amounts may exist and such differences could be material.

In accordance with underlying limited partnership agreements, net management fees may reflect fee waivers in lieu of general partner capital contributions and offsets related to transaction fees, board fees and other items.



Abbott Capital Private Equity Investors 2016 L.P.	QTD	YTD	Since Inception	QTD	YTD	Since Inception	QTD	YTD	Since Inception
	(Oct-19 -	(Jan-19 -	(Feb-16 -	(Oct-19 -	(Jan-19 -	(Feb-16 -	(Oct-19 -	(Jan-19 -	(Feb-16 -
	Dec-19)	Dec-19)	Dec-19)	Dec-19)	Dec-19)	Dec-19)	Dec-19)	Dec-19)	Dec-19)

A. Capital Account Statement for LP #5

A.1 NAV Reconciliation and Summary of Fees, Expenses & Incentive Allocation		LP #5's Allocation of Total Fund			Total Fund (incl. GP Allocation)			GP's Allocation of Total Fund		
Beginning NAV - Net of Incentive Allocation		\$25,892,886	\$18,484,835	\$0	\$76,879,179	\$55,123,410	\$0	\$881,868	\$664,640	\$0
Contributions - Cash & Non-Cash		\$3,753,750	\$11,190,000	\$29,065,001	\$11,202,287	\$33,123,650	\$86,559,254	\$73,625	\$216,150	\$566,313
Distributions - Cash & Non-Cash (input positive values)		\$0	\$1,575,000	\$2,800,000	\$50,000	\$4,799,637	\$8,460,370	\$50,000	\$81,850	\$106,400
Total Cash / Non-Cash Flows (contributions, less distributions)		3,753,750	9,615,000	26,265,001	11,152,287	28,324,013	78,098,884	23,625	134,300	459,913
Net Operating Income (Expense):										
(Management Fees – Gross of Offsets, Waivers & Rebates):		(66,250)	(265,000)	(596,250)	(225,038)	(900,150)	(2,127,875)	0	0	0
Management Fee Rebate		0	0	0	0	0	0	0	0	0
(Partnership Expenses - Total):		(14,413)	(48,998)	(252,831)	(42,979)	(146,115)	(753,941)	(289)	(980)	(5,057)
(Partnership Expenses – Accounting, Administration & IT)		0	0	0	0	0	0	0	0	0
(Partnership Expenses – Audit & Tax Preparatory)		(12,152)	(44,312)	(102,011)	(36,238)	(132,138)	(304,198)	(243)	(886)	(2,040)
(Partnership Expenses – Bank Fees)		(318)	(318)	(1,067)	(948)	(948)	(3,181)	(6)	(6)	(21)
(Partnership Expenses – Custody Fees)		0	0	0	0	0	0	0	0	0
(Partnership Expenses – Due Diligence)		0	0	0	0	0	0	0	0	0
(Partnership Expenses – Legal)		(137)	(791)	(1,752)	(410)	(2,360)	(5,226)	(3)	(16)	(35)
(Partnership Expenses – Organization Costs)		0	0	(138,234)	0	0	(412,214)	0	0	(2,765)
(Partnership Expenses – Other Travel & Entertainment)		0	0	0	0	0	0	0	0	0
(Partnership Expenses – Other *)		(1,805)	(3,577)	(9,766)	(5,383)	(10,669)	(29,123)	(37)	(72)	(195)
Total Offsets to Fees & Expenses (applied during period):		0	0	0	0	0	0	0	0	0
Offset Categories		% Offset to LP #5*								
Advisory Fee Offset		0	0	0	0	0	0	0	0	0
Broken Deal Fee Offset		0	0	0	0	0	0	0	0	0
Transaction & Deal Fee Offset		0	0	0	0	0	0	0	0	0
Directors Fee Offset		0	0	0	0	0	0	0	0	0
Monitoring Fee Offset		0	0	0	0	0	0	0	0	0
Capital Markets Fee Offset		0	0	0	0	0	0	0	0	0
Organization Cost Offset		0	0	0	0	0	0	0	0	0
Placement Fee Offset		0	0	0	0	0	0	0	0	0
Other Offset *		0	0	0	0	0	0	0	0	0
Reconciliation for Unapplied Offset Balance (Roll-forward)										
Unapplied Offset Balance (Roll-forward) - Beginning Balance		0	0	0	0	0	0	0	0	0
Plus: Total Offsets to Fees & Expenses (recognized during period)		0	0	0	0	0	0	0	0	0
Less: Total Offsets to Fees & Expenses (applied during period)		0	0	0	0	0	0	0	0	0
Unapplied Offset Balance (Roll-forward) - Ending Balance		0	0	0	0	0	0	0	0	0
(Total Management Fees & Partnership Expenses, Net of Offsets & Rebates, Gross of Fee Waiver)		(80,663)	(313,998)	(849,081)	(268,017)	(1,046,265)	(2,881,815)	(289)	(980)	(5,057)
Fee Waiver		0	0	0	0	0	0	0	0	0
Interest Income		1	1	1	3	3	3	0	0	0
Dividend Income		0	0	0	0	0	0	0	0	0
(Interest Expense)		0	0	0	0	0	0	0	0	0
Other Income/(Expense) *		0	10	1,719	0	29	5,125	0	0	34
Syndication Costs		0	0	(19,766)	0	0	(58,941)	0	0	(395)
Total Net Operating Income / (Expense)		(80,662)	(313,987)	(867,126)	(268,014)	(1,046,232)	(2,935,628)	(289)	(980)	(5,418)
(Placement Fees)		0	0	0	0	0	0	0	0	0
Realized Gain / (Loss)		168,274	1,178,127	2,282,230	536,408	3,560,956	6,841,222	53,599	73,883	95,885
Change in Unrealized Gain / (Loss)		1,641,140	2,411,413	3,695,284	4,790,629	7,128,342	11,086,010	262	87,222	408,685
Ending NAV - Net of Incentive Allocation		\$31,375,388	\$31,375,388	\$31,375,388	\$93,090,489	\$93,090,489	\$93,090,489	\$959,065	\$959,065	\$959,065
Reconciliation for Accrued Incentive Allocation										
Accrued Incentive Allocation - Starting Period Balance		(123,627)	(99,563)	0	0	0	0	366,184	294,906	0
Incentive Allocation - Paid During the Period		16,880	16,880	16,880	0	0	0	(50,000)	(50,000)	(50,000)
Accrued Incentive Allocation - Periodic Change		(6,120)	(30,184)	(129,747)	0	0	0	18,126	89,404	384,310
Accrued Incentive Allocation - Ending Period Balance		(112,866)	(112,866)	(112,866)	0	0	0	334,310	334,310	334,310
Ending NAV - Gross of Accrued Incentive Allocation		\$31,488,255	\$31,488,254	\$31,488,255	\$93,090,489	\$93,090,489	\$93,090,489	\$624,755	\$624,755	\$624,755



Abbott Capital Private Equity Investors 2016 L.P.	QTD	YTD	Since Inception	QTD	YTD	Since Inception	QTD	YTD	Since Inception
	(Oct-19 -	(Jan-19 -	(Feb-16 -	(Oct-19 -	(Jan-19 -	(Feb-16 -	(Oct-19 -	(Jan-19 -	(Feb-16 -
	Dec-19)	Dec-19)	Dec-19)	Dec-19)	Dec-19)	Dec-19)	Dec-19)	Dec-19)	Dec-19)

A.2 Commitment Reconciliation:	LP #5's Allocation of Total Fund			Total Fund (incl. GP Allocation)			GP's Allocation of Total Fund		
Total Commitment	\$50,000,000	\$50,000,000	\$50,000,000	\$149,100,000	\$149,100,000	\$149,100,000	\$1,000,000	\$1,000,000	\$1,000,000
Beginning Unfunded Commitment:	\$24,688,749	\$32,124,999	\$50,000,000	\$73,743,033	\$95,664,396	\$149,100,000	\$07,312	\$49,837	\$1,000,000
(Less Contributions)	(3,753,750)	(11,190,000)	(29,065,001)	(11,202,287)	(33,123,650)	(86,559,254)	(73,625)	(216,150)	(566,313)
Plus Recallable Distributions (1)	0	0	0	0	0	0	0	0	0
(Less Expired/Released Commitments)	0	0	0	0	0	0	0	0	0
+/- Other Unfunded Adjustment	0	0	0	0	0	0	0	0	0
Ending Unfunded Commitment	\$20,934,999	\$20,934,999	\$20,934,999	\$62,540,746	\$62,540,746	\$62,540,746	\$433,687	\$433,687	\$433,687

A.3 Miscellaneous** (input positive values):	LP #5's Allocation of Total Fund			Total Fund (incl. GP Allocation)			GP's Allocation of Total Fund		
Incentive Allocation - Earned (period-end balance)****	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Incentive Allocation - Amount Held in Escrow (period-end balance)****	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Returned Clawback****	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Capitalized Transaction Fees & Exp. - Paid to Non-Related Parties****	\$0	\$0	\$0	\$0	\$0	\$0			
Distributions Relating to Fees & Expenses****	\$0	\$0	\$0	\$0	\$0	\$0			
Fund of Funds: Gross Fees, Exp. & Incentive Allocation paid to the Underlying Funds****	\$0	\$0	\$0	\$0	\$0	\$0			

B. Schedule of Fees, Incentive Allocation & Reimbursements Received by the GP & Related Parties, with Respect to the Fund and Portfolio Companies/Investments Held by the Fund

B.1 Source Allocation:		LP #5's Allocation of Total Fund			Cumulative LPs' Allocation of Total Fund			Affiliated Positions***		
With Respect to the Fund's LPs	Management Fees - Net of Rebates, Gross of Offsets and Waivers	66,250	265,000	596,250	225,038	900,150	2,127,875			
	Partnership Expenses - Paid to GP & Related Parties - Gross of Offsets	0	0	0	0	0	0			
	(Less Total Offsets to Fees & Expenses - applied during period)	0	0	0	0	0	0			
	Capitalized Transaction Fees & Exp. - Paid to GP & Related Parties****	0	0	0	0	0	0			
	Accrued Incentive Allocation - Periodic Change	6,120	30,184	129,747	18,126	89,404	384,310			
With Respect to the Fund's Portfolio Companies/ Invs.	Total Fees with Respect to Portfolio Companies/Investments:	0	0	0	0	0	0	\$0	\$0	\$0
	Advisory Fees****	0	0	0	0	0	0	0	0	0
	Broken Deal Fees****	0	0	0	0	0	0	0	0	0
	Transaction & Deal Fees****	0	0	0	0	0	0	0	0	0
	Directors Fees****	0	0	0	0	0	0	0	0	0
	Monitoring Fees****	0	0	0	0	0	0	0	0	0
	Capital Markets Fees****	0	0	0	0	0	0	0	0	0
	Other Fees****.*	0	0	0	0	0	0	0	0	0
	Total Reimbursements for Travel & Administrative Expenses****	0	0	0	0	0	0	0	0	0
Total Received by the GP & Related Parties		\$72,370	\$295,184	\$725,997	\$243,164	\$989,554	\$2,512,185	\$0	\$0	\$0

*Current offset percentages for the specific LP; As offset calculations may change over the life of the Fund, the current offset percentages may not be applicable for calculating the non-QTD offset balances

**Content in A.3 aims to provide users with additional context on the balances provided in other sections; Some of the balances in A.3 represent a sub-total for an amount provided in another section; Balances in this section should be entered as a positive amount, even though similar balances in other sections may typically be presented as a negative amount; To prevent double-counting, or other miscalculations, users should avoid netting balances in A.3 with amounts in other sections

***Balances in this section represent fees & reimbursements received by the GP/Manager/Related Parties with respect to the Fund's investments that are not allocable to the Total Fund (i.e. allocated to ownership interests of LP co-investors & other vehicles managed-by/affiliated-with the GP/Manager/Related Party); To avoid double-counting, LP # 5's Allocation of Total Fund should not reflect any pro-rata share of these positions; Balances in this section, plus the balances in the "Cumulative LPs' Allocation of Total Fund" section, should equal the total fees/reimbursements received by the GP/Manager/Related Parties With Respect to the Fund's Portfolio Companies/Invs.

****Allocation for individual LPs, the Total Fund and all remaining positions may need to be estimated on a pro-rata basis

*A description should be provided in the footnote section for any amount(s) listed in this row for the year-to-date period

Shaded/Italicized/Grouped Content Represents Level 2 Data**Footnotes for any YTD (Total Fund) expenses, fees & offsets (including any "other" balances)**

Partnership Expenses-Other amounts include advisory board expenses, Delaware annual filing fees and Delaware agent representation expenses.

Other Income/(Expense) is comprised of syndication costs and closing interest. Closing interest is paid by limited partners admitted to the Abbott Fund at subsequent closes. Syndication costs are not recorded as an expense item on the Fund's income statement. Syndication costs are accounted for as a direct reduction to partner's capital.

(1) Recallable Distributions - Pursuant to the provisions outlined in the limited partnership agreement, Limited Partners may be required to return to the Fund all distributions received.



Fund of Funds Template: Fees, Expenses & Incentive Allocation to Underlying Funds (values in "Parent" Fund Currency)

ILPA Reporting Template (v. 1.1) - This packet was last updated on Oct. 17, 2018

"Parent" Fund Name:	Abbott Capital Private Equity Investors 2016 L.P.
"Parent" Fund Currency:	USD
"Parent" Fund Size:	\$149,100,000
LP #5 Commitment to "Parent" Fund:	\$50,000,000
Period Ending:	Dec. 31, 2019

Underlying "Child" Fund				Fees, Expenses & Incentive Allocation Paid by "Parent" Fund to "Child" Funds (Total Fund, Incl. GP Allocation - Reported in "Parent" Fund Currency)														
				Management Fees – Gross of Offsets, Waivers & Rebates			Management Fees – Net of Offsets, Waivers & Rebates			Partnership Expenses - Total			Incentive Allocation - Paid			Incentive Allocation - Periodic Change in Accrued		
Name	Commitment Amount	Vintage	Currency	QTD	YTD	Since Inception	QTD	YTD	Since Inception	QTD	YTD	Since Inception	QTD	YTD	Since Inception	QTD	YTD	Since Inception
MCERA's Share of Aggregate Underlying Portfolio Fund Amounts*								\$726,798			\$329,689			\$105,272			\$890,499	

(1) For Portfolio Fund investments held by Abbott Capital Private Equity Investors 2016 ("AP 16"), net management fees, expenses and carried interest allocations and distributions were determined in the following order :

1. Net Management fees, expenses and carried interest allocations and distributions were obtained from the December 31, 2019 year-end fee and expense templates that Abbott requested from the underlying portfolio funds of AP 16 or other capital account information provided by the underlying portfolio funds. Such amounts were then allocated to MCERA based on MCERA's proportionate share of AP 16.
2. If a template or other capital account information was not provided, fund level net management fees, expenses and carried interest allocations and distributions disclosed in the December 31, 2019 audited portfolio fund financial statements were allocated to AP 16 based on AP 16 proportionate share of each underlying portfolio fund. AP 16's proportionate share of net management fees, expenses and carried interest allocations and distributions were then allocated to MCERA based on MCERA's proportionate share of AP 16. Differences between such estimates and actual amounts likely exist and such differences could be material.

The amounts reflected above are based on information recieved by Abbott and may not reflect actual allocations to MCERA. Differences between estimated and actual amounts may exist and such differences could be material.

In accordance with underlying limited partnership agreements, net management fees may reflect fee waivers in lieu of general partner capital contributions and offsets related to transaction fees, board fees and other items.

* Represents MCERA's share of expenses, other than management fees, allocated to the underlying portfolio funds.



Abbott Capital Private Equity Investors 2017 L.P.	QTD	YTD	Since Inception	QTD	YTD	Since Inception	QTD	YTD	Since Inception
	(Oct-19 -	(Jan-19 -	(Jan-17 -	(Oct-19 -	(Jan-19 -	(Jan-17 -	(Oct-19 -	(Jan-19 -	(Jan-17 -
	Dec-19)	Dec-19)	Dec-19)	Dec-19)	Dec-19)	Dec-19)	Dec-19)	Dec-19)	Dec-19)

A. Capital Account Statement for LP #5

A.1 NAV Reconciliation and Summary of Fees, Expenses & Incentive Allocation		LP #5's Allocation of Total Fund			Total Fund (incl. GP Allocation)			GP's Allocation of Total Fund		
Beginning NAV - Net of Incentive Allocation		\$5,146,400	\$2,820,182	\$0	\$99,894,521	\$57,784,152	\$0	\$253,011	\$146,466	\$0
Contributions - Cash & Non-Cash		\$989,063	\$2,958,750	\$5,790,000	\$12,402,993	\$47,127,977	\$106,216,286	\$35,030	\$120,926	\$267,135
Distributions - Cash & Non-Cash (input positive values)		\$0	\$0	\$0	\$32,000	\$32,044	\$32,044	\$32,000	\$32,000	\$32,000
Total Cash / Non-Cash Flows (contributions, less distributions)		989,063	2,958,750	5,790,000	12,370,993	47,095,933	106,184,242	3,030	88,926	235,135
Net Operating Income (Expense):										
(Management Fees – Gross of Offsets, Waivers & Rebates):		(14,063)	(56,250)	(93,750)	(389,963)	(1,559,852)	(3,028,450)	0	0	0
Management Fee Rebate		0	0	0	0	0	0	0	0	0
(Partnership Expenses - Total):		(2,812)	(6,044)	(33,814)	(76,066)	(163,732)	(942,215)	(187)	(402)	(2,303)
(Partnership Expenses – Accounting, Administration & IT)		0	0	0	0	0	0	0	0	0
(Partnership Expenses – Audit & Tax Preparatory)		(2,351)	(5,228)	(9,099)	(63,540)	(141,666)	(247,227)	(156)	(348)	(607)
(Partnership Expenses – Bank Fees)		0	0	0	0	0	0	0	0	0
(Partnership Expenses – Custody Fees)		0	0	0	0	0	0	0	0	0
(Partnership Expenses – Due Diligence)		0	0	0	0	0	0	0	0	0
(Partnership Expenses – Legal)		0	0	(1)	0	0	(30)	0	0	(0)
(Partnership Expenses – Organization Costs)		0	0	(22,810)	0	0	(646,851)	0	0	(1,576)
(Partnership Expenses – Other Travel & Entertainment)		0	0	0	0	0	0	0	0	0
(Partnership Expenses – Other *)		(461)	(817)	(1,904)	(12,526)	(22,066)	(48,107)	(31)	(54)	(120)
Total Offsets to Fees & Expenses (applied during period):		0	0	0	0	0	0	0	0	0
Offset Categories	#5*									
Advisory Fee Offset	80%	0	0	0	0	0	0	0	0	0
Broken Deal Fee Offset	80%	0	0	0	0	0	0	0	0	0
Transaction & Deal Fee Offset	80%	0	0	0	0	0	0	0	0	0
Directors Fee Offset	100%	0	0	0	0	0	0	0	0	0
Monitoring Fee Offset	100%	0	0	0	0	0	0	0	0	0
Capital Markets Fee Offset	100%	0	0	0	0	0	0	0	0	0
Organization Cost Offset	80%	0	0	0	0	0	0	0	0	0
Placement Fee Offset	100%	0	0	0	0	0	0	0	0	0
Other Offset *	80%	0	0	0	0	0	0	0	0	0
Reconciliation for Unapplied Offset Balance (Roll-forward)	Unapplied Offset Balance (Roll-forward) - Beginning Balance	0	0	0	0	0	0	0	0	0
	Plus: Total Offsets to Fees & Expenses (recognized during period)	0	0	0	0	0	0	0	0	0
	Less: Total Offsets to Fees & Expenses (applied during period)	0	0	0	0	0	0	0	0	0
	Unapplied Offset Balance (Roll-forward) - Ending Balance	0	0	0	0	0	0	0	0	0
(Total Management Fees & Partnership Expenses, Net of Offsets & Rebates, Gross of Fee Waiver)		(16,875)	(62,294)	(127,564)	(466,029)	(1,723,584)	(3,970,665)	(187)	(402)	(2,303)
Fee Waiver		0	0	0	0	0	0	0	0	0
Interest Income		0	0	0	1	1	1	0	0	0
Dividend Income		0	0	0	0	0	0	0	0	0
(Interest Expense)		0	0	0	0	0	0	0	0	0
Other Income/(Expense) *		0	0	51	0	0	261	0	0	1
Syndication Costs		0	0	(2,510)	0	0	(68,129)	0	0	(167)
Total Net Operating Income / (Expense)		(16,875)	(62,294)	(130,022)	(466,028)	(1,723,583)	(4,038,531)	(187)	(402)	(2,469)
(Placement Fees)		0	0	0	0	0	0	0	0	0
Realized Gain / (Loss)		11,738	36,837	68,096	(14,433)	289,958	1,107,468	32,041	32,835	34,844
Change in Unrealized Gain / (Loss)		265,868	642,719	668,120	5,500,784	13,839,377	14,032,658	852,364	872,435	872,750
Ending NAV - Net of Incentive Allocation		\$6,396,194	\$6,396,194	\$6,396,194	\$117,285,837	\$117,285,837	\$117,285,837	\$1,140,260	\$1,140,260	\$1,140,260
Reconciliation for Accrued Incentive Allocation	Accrued Incentive Allocation - Starting Period Balance	0	0	0	0	0	0	0	0	0
	Incentive Allocation - Paid During the Period	1,182	1,182	1,182	0	0	0	(32,000)	(32,000)	(32,000)
	Accrued Incentive Allocation - Periodic Change	(32,173)	(32,173)	(32,173)	0	0	0	871,244	871,244	871,244
	Accrued Incentive Allocation - Ending Period Balance	(30,991)	(30,991)	(30,991)	0	0	0	839,244	839,244	839,244
	Ending NAV - Gross of Accrued Incentive Allocation	\$6,427,185	\$6,427,185	\$6,427,185	\$117,285,837	\$117,285,837	\$117,285,837	\$301,016	\$301,016	\$301,016



Abbott Capital Private Equity Investors 2017 L.P.	QTD	YTD	Since Inception	QTD	YTD	Since Inception	QTD	YTD	Since Inception
	(Oct-19 -	(Jan-19 -	(Jan-17 -	(Oct-19 -	(Jan-19 -	(Jan-17 -	(Oct-19 -	(Jan-19 -	(Jan-17 -
	Dec-19)	Dec-19)	Dec-19)	Dec-19)	Dec-19)	Dec-19)	Dec-19)	Dec-19)	Dec-19)

A.2 Commitment Reconciliation:	LP #5's Allocation of Total Fund			Total Fund (incl. GP Allocation)			GP's Allocation of Total Fund		
Total Commitment	\$15,000,000	\$15,000,000	\$15,000,000	\$407,200,000	\$407,200,000	\$407,200,000	\$1,000,000	\$1,000,000	\$1,000,000
Beginning Unfunded Commitment:	\$10,199,063	\$12,168,750	\$15,000,000	\$313,386,707	\$348,111,691	\$407,200,000	767,895	853,791	1,000,000
(Less Contributions)	(989,063)	(2,958,750)	(5,790,000)	(12,402,993)	(47,127,977)	(106,216,286)	(35,030)	(120,926)	(267,135)
Plus Recallable Distributions (1)	0	0	0	0	0	0	0	0	0
(Less Expired/Released Commitments)	0	0	0	0	0	0	0	0	0
+/- Other Unfunded Adjustment	0	0	0	0	0	0	0	0	0
Ending Unfunded Commitment	\$9,210,000	\$9,210,000	\$9,210,000	\$300,983,714	\$300,983,714	\$300,983,714	\$732,865	\$732,865	\$732,865

A.3 Miscellaneous** (input positive values):	LP #5's Allocation of Total Fund			Total Fund (incl. GP Allocation)			GP's Allocation of Total Fund		
Incentive Allocation - Earned (period-end balance)****	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Incentive Allocation - Amount Held in Escrow (period-end balance)****	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Returned Clawback****	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Capitalized Transaction Fees & Exp. - Paid to Non-Related Parties***	\$0	\$0	\$0	\$0	\$0	\$0			
Distributions Relating to Fees & Expenses****	\$0	\$0	\$0	\$0	\$0	\$0			
Fund of Funds: Gross Fees, Exp. & Incentive Allocation paid to the Underlying Funds****	\$0	\$0	\$0	\$0	\$0	\$0			

B. Schedule of Fees, Incentive Allocation & Reimbursements Received by the GP & Related Parties, with Respect to the Fund and Portfolio Companies/Investments Held by the Fund

B.1 Source Allocation:		LP #5's Allocation of Total Fund			Cumulative LPs' Allocation of Total Fund			Affiliated Positions***		
With Respect to the Fund's LPs	Management Fees - Net of Rebates, Gross of Offsets and Waivers	14,063	56,250	93,750	389,963	1,559,852	3,028,450			
	Partnership Expenses - Paid to GP & Related Parties - Gross of Offsets	0	0	0	0	0	0			
	(Less Total Offsets to Fees & Expenses - applied during period)	0	0	0	0	0	0			
	Capitalized Transaction Fees & Exp. - Paid to GP & Related Parties****	0	0	0	0	0	0			
	Accrued Incentive Allocation - Periodic Change	32,173	32,173	32,173	871,244	871,244	871,244			
With Respect to the Fund's Portfolio Companies/ Invs.	Total Fees with Respect to Portfolio Companies/Investments:	0	0	0	0	0	0	\$0	\$0	\$0
	Advisory Fees****	0	0	0	0	0	0	0	0	0
	Broken Deal Fees****	0	0	0	0	0	0	0	0	0
	Transaction & Deal Fees****	0	0	0	0	0	0	0	0	0
	Directors Fees****	0	0	0	0	0	0	0	0	0
	Monitoring Fees****	0	0	0	0	0	0	0	0	0
	Capital Markets Fees****	0	0	0	0	0	0	0	0	0
	Other Fees****.*	0	0	0	0	0	0	0	0	0
	Total Reimbursements for Travel & Administrative Expenses****	0	0	0	0	0	0	0	0	0
Total Received by the GP & Related Parties		\$46,236	\$88,423	\$125,923	\$1,261,207	\$2,431,096	\$3,899,694	\$0	\$0	\$0

*Current offset percentages for the specific LP; As offset calculations may change over the life of the Fund, the current offset percentages may not be applicable for calculating the non-QTD offset balances

**Content in A.3 aims to provide users with additional context on the balances provided in other sections; Some of the balances in A.3 represent a sub-total for an amount provided in another section; Balances in this section should be entered as a positive amount, even though similar balances in other sections may typically be presented as a negative amount; To prevent double-counting, or other miscalculations, users should avoid netting balances in A.3 with amounts in other sections

***Balances in this section represent fees & reimbursements received by the GP/Manager/Related Parties with respect to the Fund's investments that are not allocable to the Total Fund (i.e. allocated to ownership interests of LP co-investors & other vehicles managed-by/affiliated-with the GP/Manager/Related Party); To avoid double-counting, LP # 5's Allocation of Total Fund should not reflect any pro-rata share of these positions; Balances in this section, plus the balances in the "Cumulative LPs' Allocation of Total Fund" section, should equal the total fees/reimbursements received by the GP/Manager/Related Parties With Respect to the Fund's Portfolio Companies/Invs.

****Allocation for individual LPs, the Total Fund and all remaining positions may need to be estimated on a pro-rata basis

*A description should be provided in the footnote section for any amount(s) listed in this row for the year-to-date period

Shaded/Italicized/Grouped Content Represents Level 2 Data

Footnotes for any YTD (Total Fund) expenses, fees & offsets (including any "other" balances)

Partnership Expenses-Other amounts include advisory board expenses, Delaware annual filing fees and Delaware agent representation expenses.

Other Income/(Expense) is comprised of syndication costs and closing interest. Closing interest is paid by limited partners admitted to the Abbott Fund at subsequent closes. Syndication costs are not recorded as an expense item on the Fund's income statement. Syndication costs are accounted for as a direct reduction to partner's capital.

(1) Recallable Distributions - Pursuant to the provisions outlined in the limited partnership agreement, Limited Partners may be required to return to the Fund all distributions received.



Fund of Funds Template: Fees, Expenses & Incentive Allocation to Underlying Funds (values in "Parent" Fund Currency)

ILPA Reporting Template (v. 1.1) - This packet was last updated on Oct. 17, 2016

"Parent" Fund Name:	Abbott Capital Private Equity Investors 2017 L.P.
"Parent" Fund Currency:	USD
"Parent" Fund Size:	\$407,200,000
LP #5 Commitment to "Parent" Fund:	\$15,000,000
Period Ending:	Dec. 31, 2019

Underlying "Child" Fund				Fees, Expenses & Incentive Allocation Paid by "Parent" Fund to "Child" Funds (Total Fund, Incl. GP Allocation - Reported in "Parent" Fund Currency)														
				Management Fees – Gross of Offsets, Waivers & Rebates			Management Fees – Net of Offsets, Waivers & Rebates			Partnership Expenses - Total*			Incentive Allocation - Paid			Incentive Allocation - Periodic Change in Accrued		
Name	Commitment Amount	Vintage	Currency	QTD	YTD	Since Inception	QTD	YTD	Since Inception	QTD	YTD	Since Inception	QTD	YTD	Since Inception	QTD	YTD	Since Inception
MCERA's Share of Aggregate Underlying Portfolio Fund Amounts ¹								\$164,281			\$74,135			\$306			\$118,697	

(1) For Portfolio Fund investments held by Abbott Capital Private Equity Investors 2017 ("AP 17"), net management fees, expenses and carried interest allocations and distributions were determined in the following order :

1. Net Management fees, expenses and carried interest allocations and distributions were obtained from the December 31, 2019 year-end fee and expense templates that Abbott requested from the underlying portfolio funds of AP 17 or other capital account information provided by the underlying portfolio funds. Such amounts were then allocated to MCERA based on MCERA's proportionate share of AP 17.
2. If a template or other capital account information was not provided, fund level net management fees, expenses and carried interest allocations and distributions disclosed in the December 31, 2019 audited portfolio fund financial statements were allocated to AP 17 based on AP 17's proportionate share of each underlying portfolio fund. AP 17's proportionate share of net management fees, expenses and carried interest allocations and distributions were then allocated to MCERA based on MCERA's proportionate share of AP 17. Differences between such estimates and actual amounts likely exist and such differences could be material.

The amounts reflected above are based on information recieved by Abbott and may not reflect actual allocations to MCERA. Differences between estimated and actual amounts may exist and such differences could be material.

In accordance with underlying limited partnership agreements, net management fees may reflect fee waivers in lieu of general partner capital contributions and offsets related to transaction fees, board fees and other items.

Pathway Private Equity Fund 2008, LP	YTD (Jan-19 - Dec-19)	ITD (Dec-08 - Dec-19)
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Inception Start:	12/26/2008
Current Year Start:	01/01/2019
Current Period Start:	01/01/2019
Period End:	12/31/2019

A. Capital Account Statement for Marin County Employees' Retirement Association ("MCERA")

A.1 NAV Reconciliation and Summary of Fees, Expenses & Incentive Allocation	MCERA's Allocation of Total Fund	MCERA's Allocation of Total Fund
Beginning NAV - Net of Incentive Allocation	\$70,759,948	\$0
Contributions - Cash & Non-Cash	1,706,223	97,213,686
Distributions - Cash & Non-Cash (input positive values)	15,778,298	98,107,514
Total Cash / Non-Cash Flows (contributions, less distributions)	(14,072,075)	(893,828)
Net Operating Income (Expense):		0
(Management Fees – Gross of Offsets, Waivers & Rebates):	(628,533)	(9,368,804)
Management Fee Rebate	0	0
(Partnership Expenses - Total):	(55,147)	(459,806)
(Partnership Expenses – Accounting, Administration & IT)	0	0
(Partnership Expenses – Audit & Tax Preparatory)	(54,887)	(380,782)
(Partnership Expenses – Bank Fees)	0	0
(Partnership Expenses – Custody Fees)	0	0
(Partnership Expenses – Due Diligence)	0	0
(Partnership Expenses – Legal)	0	(28,501)
(Partnership Expenses – Organization Costs)	0	(21,852)
(Partnership Expenses – Other Travel & Entertainment)	0	0
(Partnership Expenses – Other+)	(260)	(28,671)
Total Offsets to Fees & Expenses (applied during period):	0	0
Offset Categories	% Offset to LP ("MCERA")*	0
Advisory Fee Offset	80%	N/A
Broken Deal Fee Offset	80%	N/A
Transaction & Deal Fee Offset	80%	N/A
Directors Fee Offset	100%	N/A
Monitoring Fee Offset	100%	N/A
Capital Markets Fee Offset	100%	N/A
Organization Cost Offset	80%	N/A
Placement Fee Offset	100%	N/A
Other Offset+	80%	N/A
Reconciliation for Unapplied Offset Balance (Roll-forward)	Unapplied Offset Balance (Roll-forward) - Beginning Balance	N/A
	Plus: Total Offsets to Fees & Expenses (recognized during period)	N/A
	Less: Total Offsets to Fees & Expenses (applied during period)	N/A
	Unapplied Offset Balance (Roll-forward) - Ending Balance	N/A
(Total Management Fees & Partnership Expenses, Net of Offsets & Rebates, Gross of Fee Waiver)	(683,680)	(9,828,610)
Fee Waiver	0	0
Interest Income	18,720	72,444
Dividend Income	0	0
(Interest Expense)	0	0
Other Income/(Expense)+	40,417	(3,301,059)
Total Net Operating Income / (Expense)	(624,543)	(13,057,225)
(Placement Fees)	0	0
Realized Gain / (Loss)	7,605,341	56,537,496
Change in Unrealized Gain / (Loss)	1,863,237	22,945,465
Ending NAV - Net of Incentive Allocation	65,531,908	65,531,908
Reconciliation for Accrued Incentive Allocation	Accrued Incentive Allocation - Starting Period Balance	0
	Incentive Allocation - Paid During the Period	0
	Accrued Incentive Allocation - Periodic Change	0
	Accrued Incentive Allocation - Ending Period Balance	0
	Ending NAV - Gross of Accrued Incentive Allocation	\$65,531,908

A.2 Commitment Reconciliation:		MCERA's Allocation of Total Fund	MCERA's Allocation of Total Fund
Total Commitment		\$100,000,000	\$100,000,000
Beginning Unfunded Commitment:		\$11,871,309	\$100,000,000
(Less Contributions)		(1,077,690)	(87,844,882)
Plus Recalable Distributions		0	0
(Less Expired/Released Commitments)		0	0
+/- Other Unfunded Adjustment		(63,326)	(1,424,825)
Ending Unfunded Commitment		\$10,730,293	\$10,730,293
A.3 Miscellaneous** (input positive values):			
Incentive Allocation - Earned (period-end balance)****		N/A	N/A
Incentive Allocation - Amount Held in Escrow (period-end balance)****		N/A	N/A
Returned Clawback****		N/A	N/A
Capitalized Transaction Fees & Exp. - Paid to Non-Related Parties****		N/A	N/A
Distributions Relating to Fees & Expenses****		N/A	N/A
Fund of Funds: Gross Fees, Exp. & Incentive Allocation paid to the Underlying Funds**** Note (A)		\$4,076,367	\$33,472,900
B. Schedule of Fees, Incentive Allocation & Reimbursements Received by the GP & Related Parties, with Respect to the Fund and Portfolio Companies/Investments Held by the Fund			
B.1 Source Allocation:		MCERA's Allocation of Total Fund	MCERA's Allocation of Total Fund
With Respect to the Fund's LPs	Management Fees - Net of Rebates, Gross of Offsets and Waivers	628,533	9,368,804
	Partnership Expenses - Paid to GP & Related Parties - Gross of Offsets	N/A	N/A
	(Less Total Offsets to Fees & Expenses - applied during period)	N/A	N/A
	Capitalized Transaction Fees & Exp. - Paid to GP & Related Parties****	N/A	N/A
	Accrued Incentive Allocation - Periodic Change	N/A	N/A
With Respect to the Fund's Portfolio Companies/ Invs.	Total Fees with Respect to Portfolio Companies/Investments:	0	0
	Advisory Fees****	N/A	N/A
	Broken Deal Fees****	N/A	N/A
	Transaction & Deal Fees****	N/A	N/A
	Directors Fees****	N/A	N/A
	Monitoring Fees****	N/A	N/A
	Capital Markets Fees****	N/A	N/A
	Other Fees****, +	N/A	N/A
	Total Reimbursements for Travel & Administrative Expenses****	N/A	N/A
Total Received by the GP & Related Parties		\$628,533	\$9,368,804

*Current offset percentages for the specific LP; As offset calculations may change over the life of the Fund, the current offset percentages may not be applicable for calculating the non-QTD offset balances.

**Content in A.3 aims to provide users with additional context on the balances provided in other sections; Some of the balances in A.3 represent a sub-total for an amount provided in another section; Balances in this section should be entered as a positive amount, even though similar balances in other sections may typically be presented as a negative amount; To prevent double-counting, or other miscalculations, users should avoid netting balances in A.3 with amounts in other sections.

***Balances in this section represent fees & reimbursements received by the GP/Manager/Related Parties with respect to the Fund's investments that are not allocable to the Total Fund (i.e. allocated to ownership interests of LP co-investors & other vehicles managed-by/affiliated-with the GP/Manager/Related Party); To avoid double-counting, LP # 5's Allocation of Total Fund should not reflect any pro-rata share of these positions; Balances in this section, plus the balances in the "Cumulative LPs' Allocation of Total Fund" section, should equal the total fees/reimbursements received by the GP/Manager/Related Parties With Respect to the Fund's Portfolio Companies/Invs.

****Allocation for individual LPs, the Total Fund and all remaining positions may need to be estimated on a pro-rata basis

+A description should be provided in the footnote section for any amount(s) listed in this row for the year-to-date period

Shaded/Italicized/Grouped Content Represents Level-2 Data

Footnotes for any YTD (Total Fund) expenses, fees & offsets (including any "other" balances)

General Note - Please note that this information is based on estimates or values reported by the underlying investment partnerships. Actual results may vary from these estimates.

Note (A) - Gross management fees are generally not reported by the underlying investment partnerships, and therefore, amounts are based on net management fees.

Partnership Expenses - Other \$(260) = Tax Expense/(Refund) \$11 + Registered Agent Fee (\$49) + Fidelity Bond Expense (\$222)

Other Income/(Expense) \$40,417 = Net investment income/(loss) from investments \$40,417

Other Unfunded Adjustment (\$63,326) = Currency adjustment (\$63,326)

Pathway Private Equity Fund Investors 7, LP	YTD (Jan-19 - Dec-19)	ITD (Feb-13 - Dec-19)
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Inception Start:	02/07/2013
Current Year Start:	01/01/2019
Current Period Start:	01/01/2019
Period End:	12/31/2019

A. Capital Account Statement for Marin County Employees' Retirement Association ("MCERA")

A.1 NAV Reconciliation and Summary of Fees, Expenses & Incentive Allocation		MCERA's Allocation of Total Fund	MCERA's Allocation of Total Fund
Beginning NAV - Net of Incentive Allocation		\$33,388,429	\$0
Contributions - Cash & Non-Cash		1,798,046	32,129,769
Distributions - Cash & Non-Cash (input positive values)		5,518,225	12,487,389
Total Cash / Non-Cash Flows (contributions, less distributions)		(3,720,179)	19,642,380
Net Operating Income (Expense):			
(Management Fees – Gross of Offsets, Waivers & Rebates):		(315,000)	(2,172,625)
Management Fee Rebate		0	0
(Partnership Expenses - Total):		(20,091)	(123,088)
(Partnership Expenses – Accounting, Administration & IT)		0	0
(Partnership Expenses – Audit & Tax Preparatory)		(20,106)	(86,261)
(Partnership Expenses – Bank Fees)		0	0
(Partnership Expenses – Custody Fees)		0	0
(Partnership Expenses – Due Diligence)		0	0
(Partnership Expenses – Legal)		(8)	(8,402)
(Partnership Expenses – Organization Costs)		0	(28,433)
(Partnership Expenses – Other Travel & Entertainment)		0	0
(Partnership Expenses – Other+)		23	8
Total Offsets to Fees & Expenses (applied during period):		0	0
Offset Categories			
% Offset to LP ("MCERA")*			
Advisory Fee Offset		80%	N/A
Broken Deal Fee Offset		80%	N/A
Transaction & Deal Fee Offset		80%	N/A
Directors Fee Offset		100%	N/A
Monitoring Fee Offset		100%	N/A
Capital Markets Fee Offset		100%	N/A
Organization Cost Offset		80%	N/A
Placement Fee Offset		100%	N/A
Other Offset+		80%	N/A
Reconciliation for Unapplied Offset Balance (Roll-forward)	Unapplied Offset Balance (Roll-forward) - Beginning Balance	N/A	N/A
	Plus: Total Offsets to Fees & Expenses (recognized during period)	N/A	N/A
	Less: Total Offsets to Fees & Expenses (applied during period)	N/A	N/A
	Unapplied Offset Balance (Roll-forward) - Ending Balance	N/A	N/A
(Total Management Fees & Partnership Expenses, Net of Offsets & Rebates, Gross of Fee Waiver)		(335,091)	(2,295,713)
Fee Waiver		0	0
Interest Income		11,340	28,638
Dividend Income		0	0
(Interest Expense)		0	0
Other Income/(Expense)+		(155,476)	(1,770,435)
Total Net Operating Income / (Expense)		(479,227)	(4,037,510)
(Placement Fees)		0	0
Realized Gain / (Loss)		4,255,706	9,591,463
Change in Unrealized Gain / (Loss)		5,296,376	13,544,772
Ending NAV - Net of Incentive Allocation		38,741,105	38,741,105
Reconciliation for Accrued Incentive Allocation	Accrued Incentive Allocation - Starting Period Balance	0	0
	Incentive Allocation - Paid During the Period	0	0
	Accrued Incentive Allocation - Periodic Change	0	0
	Accrued Incentive Allocation - Ending Period Balance	0	0
	Ending NAV - Gross of Accrued Incentive Allocation	\$38,741,105	\$38,741,105

A.2 Commitment Reconciliation:		MCERA's Allocation of Total Fund	MCERA's Allocation of Total Fund
Total Commitment		\$35,000,000	\$35,000,000
Beginning Unfunded Commitment:		\$5,865,755	\$35,000,000
(Less Contributions)		(1,483,046)	(29,957,144)
Plus Recallable Distributions		0	0
(Less Expired/Released Commitments)		0	0
+/- Other Unfunded Adjustment		226	(659,921)
Ending Unfunded Commitment		\$4,382,935	\$4,382,935
A.3 Miscellaneous** (input positive values):			
Incentive Allocation - Earned (period-end balance)****		N/A	N/A
Incentive Allocation - Amount Held in Escrow (period-end balance)****		N/A	N/A
Returned Clawback****		N/A	N/A
Capitalized Transaction Fees & Exp. - Paid to Non-Related Parties****		N/A	N/A
Distributions Relating to Fees & Expenses****		N/A	N/A
Fund of Funds: Gross Fees, Exp. & Incentive Allocation paid to the Underlying Funds**** Note (A)		\$2,681,711	8,366,221
B. Schedule of Fees, Incentive Allocation & Reimbursements Received by the GP & Related Parties, with Respect to the Fund and Portfolio Companies/Investments Held by the Fund			
B.1 Source Allocation:		MCERA's Allocation of Total Fund	MCERA's Allocation of Total Fund
With Respect to the Fund's LPs	Management Fees - Net of Rebates, Gross of Offsets and Waivers	315,000	2,172,625
	Partnership Expenses - Paid to GP & Related Parties - Gross of Offsets	N/A	N/A
	(Less Total Offsets to Fees & Expenses - applied during period)	N/A	N/A
	Capitalized Transaction Fees & Exp. - Paid to GP & Related Parties****	N/A	N/A
	Accrued Incentive Allocation - Periodic Change	N/A	N/A
With Respect to the Fund's Portfolio Companies/ Invs.	Total Fees with Respect to Portfolio Companies/Investments:	0	0
	Advisory Fees****	N/A	N/A
	Broken Deal Fees****	N/A	N/A
	Transaction & Deal Fees****	N/A	N/A
	Directors Fees****	N/A	N/A
	Monitoring Fees****	N/A	N/A
	Capital Markets Fees****	N/A	N/A
	Other Fees****, +	N/A	N/A
	Total Reimbursements for Travel & Administrative Expenses****	N/A	N/A
	Total Received by the GP & Related Parties	\$315,000	\$2,172,625

*Current offset percentages for the specific LP; As offset calculations may change over the life of the Fund, the current offset percentages may not be applicable for calculating the non-QTD offset balances.

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****Allocation for individual LPs, the Total Fund and all remaining positions may need to be estimated on a pro-rata basis

+A description should be provided in the footnote section for any amount(s) listed in this row for the year-to-date period

Shaded/Italicized/Grouped Content Represents Level-2 Data

Footnotes for any YTD (Total Fund) expenses, fees & offsets (including any "other" balances)

General Note - Please note that this information is based on estimates or values reported by the underlying investment partnerships. Actual results may vary from these estimates.

Note (A) - Gross management fees are generally not reported by the underlying investment partnerships, and therefore, amounts are based on net management fees.

Partnership Expenses – Other \$23 = State tax expense (\$34) + Fidelity bond expense (\$297) + Misc expense (\$24) + Federal tax refund \$378

Other Income/(Expense) (\$155,479) = Net investment income/(loss) from investments (\$155,479)

Other Unfunded Adjustment \$226 = Foreign currency adjustment \$226

Pathway Private Equity Fund Investors 8, LP	YTD (Jan-19 - Dec-19)	ITD (Mar-15 - Dec-19)
--	------------------------------------	------------------------------------

Inception Start:	03/23/2015
Current Year Start:	01/01/2019
Current Period Start:	01/01/2019
Period End:	12/31/2019

A. Capital Account Statement for Marin County Employees' Retirement Association ("MCERA")

A.1 NAV Reconciliation and Summary of Fees, Expenses & Incentive Allocation		MCERA's Allocation of Total Fund	MCERA's Allocation of Total Fund	
Beginning NAV - Net of Incentive Allocation		\$31,274,560	\$0	
Contributions - Cash & Non-Cash		4,796,233	31,849,257	
Distributions - Cash & Non-Cash (input positive values)		1,356,234	3,254,273	
Total Cash / Non-Cash Flows (contributions, less distributions)		3,439,999	28,594,984	Row Contains Formulas
Net Operating Income (Expense):				
(Management Fees – Gross of Offsets, Waivers & Rebates):		(403,548)	(1,321,621)	
Management Fee Rebate		0	0	
(Partnership Expenses - Total):		(56,207)	(140,870)	Row Contains Formulas
(Partnership Expenses – Accounting, Administration & IT)		0	0	
(Partnership Expenses – Audit & Tax Preparatory)		(18,616)	(48,293)	
(Partnership Expenses – Bank Fees)		0	0	
(Partnership Expenses – Custody Fees)		0	0	
(Partnership Expenses – Due Diligence)		0	0	
(Partnership Expenses – Legal)		(1,350)	(18,680)	
(Partnership Expenses – Organization Costs)		0	0	
(Partnership Expenses – Other Travel & Entertainment)		0	0	
(Partnership Expenses – Other+)		(36,241)	(73,897)	
Total Offsets to Fees & Expenses (applied during period):		0	0	
Offset Categories		% Offset to LP ("MCERA")*		
Advisory Fee Offset		80%	N/A	N/A
Broken Deal Fee Offset		80%	N/A	N/A
Transaction & Deal Fee Offset		80%	N/A	N/A
Directors Fee Offset		100%	N/A	N/A
Monitoring Fee Offset		100%	N/A	N/A
Capital Markets Fee Offset		100%	N/A	N/A
Organization Cost Offset		80%	N/A	N/A
Placement Fee Offset		100%	N/A	N/A
Other Offset+		80%	N/A	N/A
Reconciliation for Unapplied Offset Balance (Roll-forward)	Unapplied Offset Balance (Roll-forward) - Beginning Balance	N/A	N/A	
	Plus: Total Offsets to Fees & Expenses (recognized during period)	N/A	N/A	
	Less: Total Offsets to Fees & Expenses (applied during period)	N/A	N/A	
	Unapplied Offset Balance (Roll-forward) - Ending Balance	N/A	N/A	
(Total Management Fees & Partnership Expenses, Net of Offsets & Rebates, Gross of Fee Waiver)		(459,755)	(1,462,491)	Row Contains Formulas
Fee Waiver		0	0	
Interest Income		4,953	27,565	
Dividend Income		0	0	
(Interest Expense)		0	0	
Other Income/(Expense)+		(583,921)	(2,255,172)	
Total Net Operating Income / (Expense)		(1,038,723)	(3,690,098)	Row Contains Formulas
(Placement Fees)		0	0	
Realized Gain / (Loss)		1,937,063	4,711,226	
Change in Unrealized Gain / (Loss)		5,880,660	11,877,447	
Ending NAV - Net of Incentive Allocation		41,493,559	41,493,559	Row Contains Formulas
Reconciliation for Accrued Incentive Allocation	Accrued Incentive Allocation - Starting Period Balance	0	0	
	Incentive Allocation - Paid During the Period	0	0	
	Accrued Incentive Allocation - Periodic Change	0	0	
	Accrued Incentive Allocation - Ending Period Balance	0	0	
	Ending NAV - Gross of Accrued Incentive Allocation	\$41,493,559	\$41,493,559	Row Contains Formulas

A.2 Commitment Reconciliation:		MCERA's Allocation of Total Fund	MCERA's Allocation of Total Fund	
Total Commitment		\$50,000,000	\$50,000,000	
Beginning Unfunded Commitment:		\$23,607,632	\$50,000,000	
(Less Contributions)		(4,392,684)	(30,527,636)	
Plus Recallable Distributions		0	0	
(Less Expired/Released Commitments)		0	0	
+/- Other Unfunded Adjustment		(83,476)	(340,892)	
Ending Unfunded Commitment		\$19,131,472	\$19,131,472	Row Contains Formulas
A.3 Miscellaneous** (input positive values):				
Incentive Allocation - Earned (period-end balance)****		N/A	N/A	
Incentive Allocation - Amount Held in Escrow (period-end balance)****		N/A	N/A	
Returned Clawback****		N/A	N/A	
Capitalized Transaction Fees & Exp. - Paid to Non-Related Parties****		N/A	N/A	
Distributions Relating to Fees & Expenses****		N/A	N/A	
Fund of Funds: Gross Fees, Exp. & Incentive Allocation paid to the Underlying Funds**** Note (A)		\$2,933,872	\$7,064,002	
B. Schedule of Fees, Incentive Allocation & Reimbursements Received by the GP & Related Parties, with Respect to the Fund and Portfolio Companies/Investments Held by the Fund				
B.1 Source Allocation:		MCERA's Allocation of Total Fund	MCERA's Allocation of Total Fund	
With Respect to the Fund's LPs	Management Fees - Net of Rebates, Gross of Offsets and Waivers	403,548	1,321,621	Row Contains Formulas
	Partnership Expenses - Paid to GP & Related Parties - Gross of Offsets	N/A	N/A	
	(Less Total Offsets to Fees & Expenses - applied during period)	N/A	N/A	
	Capitalized Transaction Fees & Exp. - Paid to GP & Related Parties****	N/A	N/A	
	Accrued Incentive Allocation - Periodic Change	N/A	N/A	
With Respect to the Fund's Portfolio Companies/ Invs.	Total Fees with Respect to Portfolio Companies/Investments:	0	0	
	Advisory Fees****	N/A	N/A	
	Broken Deal Fees****	N/A	N/A	
	Transaction & Deal Fees****	N/A	N/A	
	Directors Fees****	N/A	N/A	
	Monitoring Fees****	N/A	N/A	
	Capital Markets Fees****	N/A	N/A	
	Other Fees****, +	N/A	N/A	
	Total Reimbursements for Travel & Administrative Expenses****	N/A	N/A	
Total Received by the GP & Related Parties		\$403,548	\$1,321,621	Row Contains Formulas

*Current offset percentages for the specific LP; As offset calculations may change over the life of the Fund, the current offset percentages may not be applicable for calculating the non-QTD offset balances.

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***Balances in this section represent fees & reimbursements received by the GP/Manager/Related Parties with respect to the Fund's investments that are not allocable to the Total Fund (i.e. allocated to ownership interests of LP co-investors & other vehicles managed-by/affiliated-with the GP/Manager/Related Party); To avoid double-counting, LP # 5's Allocation of Total Fund should not reflect any pro-rata share of these positions; Balances in this section, plus the balances in the "Cumulative LPs' Allocation of Total Fund" section, should equal the total fees/reimbursements received by the GP/Manager/Related Parties With Respect to the Fund's Portfolio Companies/Invs.

****Allocation for individual LPs, the Total Fund and all remaining positions may need to be estimated on a pro-rata basis

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Shaded/Italicized/Grouped Content Represents Level-2 Data

Footnotes for any YTD (Total Fund) expenses, fees & offsets (including any "other" balances)

General Note - Please note that this information is based on estimates or values reported by the underlying investment partnerships. Actual results may vary from these estimates.

Note (A) - Gross management fees are generally not reported by the underlying investment partnerships, and therefore, amounts are based on net management fees.

Partnership Expenses – Other (\$36,241) = State tax expense (\$140) + LOC Fees (\$36,064) + Fidelity bond expense \$218 + Miscellaneous (\$255)

Other Income/(Expense) (\$583,921) = Net investment income/(loss) from investments (\$583,921)

Other Unfunded Adjustment (\$83,476) = Currency adjustment (\$83,476)

Pathway Private Equity Fund Investors 9, LP	YTD	Since Inception	
	(Jan-19 -	(Feb-17 -	Inception Start: 02/07/2017
	(Dec-19 -	Dec-19)	Current Year Start: 01/01/2019
			Period End: 12/31/2019

Row Contains Formulas

Row Contains Formulas

A. Capital Account Statement for Marin County Employees' Retirement Association ("MCERA")

A.1 NAV Reconciliation and Summary of Fees, Expenses & Incentive Allocation		MCERA's Allocation of Total Fund	
Beginning NAV - Net of Incentive Allocation		\$2,217,238	\$0
Contributions - Cash & Non-Cash		3,452,511	6,206,049
Distributions - Cash & Non-Cash (input positive values)		165,272	651,549
Total Cash / Non-Cash Flows (contributions, less distributions)		3,287,239	5,554,500
Net Operating Income (Expense):			
(Management Fees – Gross of Offsets, Waivers & Rebates):		(78,827)	(150,230)
Management Fee Rebate		0	0
(Partnership Expenses - Total):		(10,704)	(34,453)
(Partnership Expenses – Accounting, Administration & IT)		0	0
(Partnership Expenses – Audit & Tax Preparatory)		(4,432)	(6,330)
(Partnership Expenses – Bank Fees)		0	0
(Partnership Expenses – Custody Fees)		0	0
(Partnership Expenses – Due Diligence)		0	0
(Partnership Expenses – Legal)		(1,303)	(6,265)
(Partnership Expenses – Organization Costs)		0	(16,740)
(Partnership Expenses – Other Travel & Entertainment)		0	0
(Partnership Expenses – Other+)		(4,969)	(5,118)
Total Offsets to Fees & Expenses (applied during period):		0	0
Offset Categories		% Offset to LP	("MCERA")*
Advisory Fee Offset		80%	N/A
Broken Deal Fee Offset		80%	N/A
Transaction & Deal Fee Offset		80%	N/A
Directors Fee Offset		100%	N/A
Monitoring Fee Offset		100%	N/A
Capital Markets Fee Offset		100%	N/A
Organization Cost Offset		80%	N/A
Placement Fee Offset		100%	N/A
Other Offset+		80%	N/A
Reconciliation for Unapplied Offset Balance (Roll-forward)	Unapplied Offset Balance (Roll-forward) - Beginning Balance	N/A	N/A
	Plus: Total Offsets to Fees & Expenses (recognized during period)	N/A	N/A
	Less: Total Offsets to Fees & Expenses (applied during period)	N/A	N/A
	Unapplied Offset Balance (Roll-forward) - Ending Balance	N/A	N/A
(Total Management Fees & Partnership Expenses, Net of Offsets & Rebates, Gross of Fee Waiver)		(89,531)	(184,683)
Fee Waiver		0	0
Interest Income		1,474	3,806
Dividend Income		0	0
(Interest Expense)		(11,124)	(11,124)
Other Income/(Expense)+		(206,726)	(373,842)
Total Net Operating Income / (Expense)		(305,907)	(565,843)
(Placement Fees)		0	0
Realized Gain / (Loss)		131,175	419,467
Change in Unrealized Gain / (Loss)		529,748	451,369
Ending NAV - Net of Incentive Allocation		5,859,493	5,859,493
Reconciliation for Accrued Incentive Allocation	Accrued Incentive Allocation - Starting Period Balance	0	0
	Incentive Allocation - Paid During the Period	0	0
	Accrued Incentive Allocation - Periodic Change	0	0
	Accrued Incentive Allocation - Ending Period Balance	0	0
	Ending NAV - Gross of Accrued Incentive Allocation	5,859,493	5,859,493

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A.2 Commitment Reconciliation:				
Total Commitment		\$15,000,000	\$15,000,000	Row Contains Formulas
Beginning Unfunded Commitment:		\$12,365,903	\$15,000,000	Row Contains Formulas
(Less Contributions)		(3,373,684)	(6,055,819)	
Plus Recalable Distributions		0	0	
(Less Expired/Released Commitments)		0	0	
+/- Other Unfunded Adjustment		(26,981)	21,057	
Ending Unfunded Commitment		\$8,965,238	\$8,965,238	Row Contains Formulas
A.3 Miscellaneous** (input positive values):				
Incentive Allocation - Earned (period-end balance)****		N/A	N/A	Row Contains Formulas
Incentive Allocation - Amount Held in Escrow (period-end balance)****		N/A	N/A	
Returned Clawback****		N/A	N/A	
Capitalized Transaction Fees & Exp. - Paid to Non-Related Parties****		N/A	N/A	
Distributions Relating to Fees & Expenses****		N/A	N/A	
Fund of Funds: Gross Fees, Exp. & Incentive Allocation paid to the Underlying Funds****		\$1,685,946	\$2,751,959	Row Contains Formulas
B. Schedule of Fees, Incentive Allocation & Reimbursements Received by the GP & Related Parties, with Respect to the Fund and Portfolio Companies/Investments Held by the Fund				
B.1 Source Allocation:				
With Respect to the Fund's LPs	Management Fees - Net of Rebates, Gross of Offsets and Waivers	737,373	1,420,164	Row Contains Formulas
	Partnership Expenses - Paid to GP & Related Parties - Gross of Offsets	N/A	N/A	
	(Less Total Offsets to Fees & Expenses - applied during period)	N/A	N/A	Row Contains Formulas
	Capitalized Transaction Fees & Exp. - Paid to GP & Related Parties****	N/A	N/A	
	Accrued Incentive Allocation - Periodic Change	N/A	N/A	Row Contains Formulas
With Respect to the Fund's Portfolio Companies/ Invs.	Total Fees with Respect to Portfolio Companies/Investments:	0	0	Row Contains Formulas
	Advisory Fees****	N/A	N/A	
	Broken Deal Fees****	N/A	N/A	
	Transaction & Deal Fees****	N/A	N/A	
	Directors Fees****	N/A	N/A	
	Monitoring Fees****	N/A	N/A	
	Capital Markets Fees****	N/A	N/A	
	Other Fees**** +	N/A	N/A	
	Total Reimbursements for Travel & Administrative Expenses****	N/A	N/A	
Total Received by the GP & Related Parties		\$737,373	\$1,420,164	Row Contains Formulas

*Current offset percentages for the specific LP; As offset calculations may change over the life of the Fund, the current offset percentages may not be applicable for calculating the non-QTD offset balances

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+A description should be provided in the footnote section for any amount(s) listed in this row for the year-to-date period

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Footnotes for any YTD (Total Fund) expenses, fees & offsets (including any "other" balances)

General Note - Please note that this information is based on estimates or values reported by the underlying investment partnerships. Actual results may vary from these estimates.

Note (A) - Gross management fees are generally not reported by the underlying investment partnerships, and therefore, amounts are based on net management fees.

Partnership Expenses – Other (\$4,969) Fidelity Bond Coverage (\$124) + Line of Credit Borrowing Fees (\$4,788) + State Tax (\$57)

Other Income/(Expense) (\$206,726) = Net investment loss from investments (\$206,726)

Other Unfunded Adjustment (\$26,981) = Foreign currency adjustment (\$26,981)

Policy-Focused Boards: Moving from Theory to Implementation

Prepared by

Tom Iannucci, Cortex Applied Research

For:

Marin County Employees' Retirement Association

October 2020

Previous Discussion

Effective boards are policy-focused:

- Set the direction and agenda for the organization
- Ensure organization is positioned to carry out Mission
- Set policy
- Manage risk
- Provide oversight

Scenario

Mr. Trevis E. Therium recently joined the Board of Evergreen County Retirement Association and was proud to be the first millennial to serve on it. At his second meeting, he informed the Board that he had personally invested in Bitcoin less than a year ago and had already earned a return in excess of 100%. He further explained that many articles and presentations can be found arguing that paper currencies will collapse and investors should therefore have considerable exposure to cryptocurrencies such as Bitcoin. Trevis's comments caused some debate among the trustees:

- Sarah A. Oldetymer argued there was no need to worry about the US dollar and therefore no need to consider any newfangled ideas like Bitcoin;
- Tom S. Keptical warned Trevis that if his bitcoin went up that fast, it was bound to fall just as fast;
- Several other trustees agreed with Sarah;
- Jane Ahpenmynded suggested the Board should invite a cryptocurrency dealer to make an educational presentation to the Board; and
- Johnny Novice asked, "what's a cryptocurrency?"

After 15 minutes of discussion, the Board voted to table the matter to later in the year.

After the meeting, Trevis was heard telling Johnny Novice that he was disappointed in the outcome, but that he would send all the trustees a TikTok video about Bitcoin to see if it might spark some interest.

Policy & Risk Management

- Even the most successful organizations can fall behind or become complacent.
- Effective boards need to be constantly assessing risks in their environment and determining which require attention and which do not.
- Change and evolution is essential, but boards need to be cautious of:
 - Change for the sake of change;
 - Hasty changes;
 - Failing to recognize the need for change;
 - Imprudent decisions

A Useful Tool

(A) Important & Not Urgent	(B) Important & Urgent
(C) Not Important & Urgent	(D) Not Important & Not Urgent

How To Get There?

Nine plus trustees:

- Different ideas and preferences
- Various backgrounds and perspectives
- Range of tenures on the board
- Different risk tolerance levels

Common Solution

Strategic planning

- Unnecessarily elaborate
- Expensive in terms of time and resources
- Board members' issues are not necessarily *strategic*

An Alternative Approach

1. Issue identification
2. Apply FRED:
 - **F**rame the issues and approach
 - **R**ank the issues
 - **E**ducation/Analysis
 - **D**ecision time
3. Repeat

1. Issue Identification

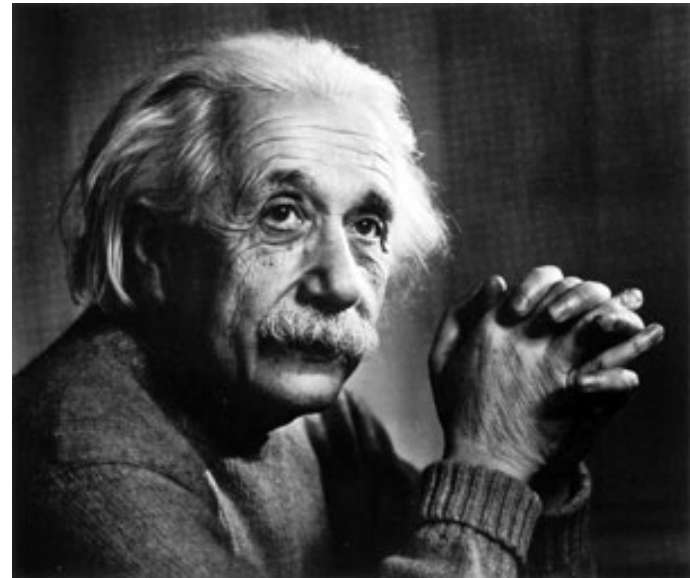
- A periodic (e.g. annual), scheduled, casual, idea-generation session for Board and management:
 - Get all ideas on the table
 - Sort them in terms of importance and urgency
 - Focus on the “important not urgent”
 - Preliminary discussion to allow board members to describe/explain their issue or concern
- Board members should prepare for all the above in advance
- No decisions are made at this stage.
- Eventually, one hour or less may suffice.

2. Frame the Issue & Approach

- Tendency is to define the problem and solve (or essentially solve) the problem at the same meeting.
- Instead:
 - Allow some time to pass between issue identification, and prioritization and decisions
 - Allow management an opportunity to frame the issues:
 - Issue may be broader or narrower than originally expressed
 - The organization may already be addressing the organization through some other process

Framing

“If I had one hour to save the world, I would spend 55 minutes defining the problem and only 5 minutes finding a solution.”



3. Rank the Issues

- Develop consensus on a reasonable number of priorities on which to focus (e.g., 2-4 but will depend on the nature/complexity of the issues and resources)
- Goal is to simply identify the issues we wish to review and explore over subsequent months:
 - Prioritizing and agreeing to explore an issue does not imply the Board will change anything.
- Ideas not assigned high priority are not forgotten, but held for future consideration.

4. Education & Analysis

- Responsibility of management with support from advisors, if necessary.
- There is no *one* approach that may be used:
 - Educational session(s) with the Board
 - Define the terms
 - Confirm current practice
 - Confirm legal parameters
 - Understand peer practices
 - Understand the major schools of thought on the issue
 - Identify our options, including status quo
 - Evaluate the options

5. Decision-making

As the analyses of different priority issues are completed, they are brought forward to the Board for consideration and a decision.

6. Repeat

The process is repeated periodically (e.g. annually):

- Bring forward past issues that were not deemed top priorities;
- Identify new issues, *if any*;
- Re-prioritize;
- Etc.

Issues that Bubble Up

- What if an issue arises between idea generation sessions?
 - If feasible, defer the issue until the next scheduled idea generation session
 - If not feasible, the Board must decide whether to direct staff to apply FRED to the issue in any event

Return to Evergreen County

How else might the Board of Evergreen County Retirement Association have approached the request by Trevis E. Therium to invest in Bitcoin?

Roles and Duties

- All board members have a role/duty to identify potential policy issues/risks
- The Board has a duty to ensure all issues are considered and properly analysed subject to resource constraints.
- Individual board members are entitled to have their issues properly considered, but must accept the will of the board in the final analysis.
- Individual board members must be objective when voting on whether their issue should be made a priority.

Benefits

- Allows board members' concerns to be considered and addressed in a thoughtful and comprehensive manner.
- Ensures the Board/organization is always tackling a small number of priority IBNU issues.
- Ensures broader participation.
- Because it's a scheduled, periodic exercise, it will likely be non-threatening.
- Cost-effective.

Practice Example

PRACTICE EXAMPLE - EVERGREEN COUNTY RETIREMENT BOARD

EVERGREEN COUNTY RETIREMENT BOARD

STEP 1 - ISSUE IDENTIFICATION

1. Portfolio risk
2. Operational risk
3. Complete this year's actuarial valuation
4. Portfolio transparency from asset managers
5. Uncovering and quantifying risks to the investment portfolio
6. Investigate reducing public equity risk in the portfolio
7. Cyber security
8. Fee transparency from private equity managers
9. Encouraging more gender diversity on corporate boards
10. Complete scheduled actuarial experience study
11. Maximizing investment returns in a recession
12. Fulfilling our fiduciary responsibilities without getting into the *weeds*
13. Review continued appropriateness of asset allocation process
14. Consider enhancing process of assurance and due diligence by custodian
15. Voting proxies in-house
16. Initiate this year's asset allocation study
17. ESG Investing,
18. Information security
19. Computerized proxy voting on standard proxy voting issues
20. Developing Board goals
21. Design annual Board education retreat
22. Update plan member newsletter in response to survey feedback from plan members
23. Complete the implementation of new benefit administration system

PRACTICE EXAMPLE - EVERGREEN COUNTY RETIREMENT BOARD

STEP 1 - ISSUE IDENTIFICATION (CONT'D)

SORTING THE ISSUES

IMPORTANT BUT NOT URGENT

1. Portfolio risk
2. Operational risk
3. Fee transparency from private equity managers
4. Uncovering and quantifying risks to the investment portfolio
5. Cyber security
6. Portfolio transparency from asset managers
7. Encouraging more gender diversity on corporate boards
8. Fulfilling our fiduciary responsibilities without getting into the *weeds*
9. Review continued appropriateness of asset allocation process
10. Consider enhancing process of assurance and due diligence by custodian
11. Voting proxies in-house
12. ESG Investing,
13. Information security
14. Computerized proxy voting on standard proxy voting issues.
15. Developing Board goals
16. Investigate reducing public equity risk in the portfolio
17. Maximizing investment returns in a recession

IMPORTANT & URGENT

1. Complete implementation of new benefit administration system
2. Initiate this year's asset allocation process
3. Complete scheduled actuarial experience study
4. Update plan member newsletter in response to survey feedback from plan members
5. Complete this year's actuarial valuation
6. Design annual Board Education Retreat

PRACTICE EXAMPLE - EVERGREEN COUNTY RETIREMENT BOARD

STEP 2 – FRAMING

The 19 issues identified as ***Important but Not Urgent*** can be grouped into eight broader issues as follows:

1. Fee transparency in private equity portfolio
2. Portfolio concentration risk
 - a. Transparency from our asset managers.
 - b. Uncovering and quantifying risks to the investment portfolio
3. Review continued appropriateness of asset allocation process
 - a. Investigate reducing public equity risk in the portfolio to reduce sensitivity to market moves
 - b. Maximize returns in a recession
4. Responsible Investment
 - a. Encouraging gender diversity on corporate boards.
 - b. Internal proxy voting
 - c. ESG Investing,
 - d. Explore computerized proxy voting on standard proxy voting issues
5. Operational Risk
 - a. Cyber security
 - b. Consider beefing up process of assurance and due diligence - especially regarding custodians
 - c. Information security
6. Board effectiveness
 - a. Fulfilling fiduciary responsibilities without getting into the *weeds*.
 - b. Developing Board goals

STEP 3 – RANKING/PRIORITIZING

3 Priorities (in no particular order):

- 1. *Operational Risk***
- 2. *Portfolio concentration risk***
- 3. *Responsible Investment***

Parking Lot Issues (in no particular order):

1. Fee transparency in private equity portfolio
2. Review continued appropriateness of asset allocation process
3. Board effectiveness

STEP 4 – EDUCATION/ANALYSIS

The optimal approach will vary by issue, but a reasonable default approach might include:

- Establish terminology/definitions
- What are we currently doing on this issue?
- What are our legal/professional obligations regarding this issue? i.e. minimum standards
- What is the common industry/peer practice? What is considered the leading practice?
- Are there different schools of thought on the issue? If so, what are they?
- What reasonable options are available to us regarding the issue?
- What are the pros and cons of each?
- Do staff/advisors have a recommendation?

Topic 1 Portfolio Concentration Risk

- 1) What is portfolio concentration risk?
- 2) What parts of the portfolio does it normally refer to?
 - a) Public markets?
 - b) Private markets?
- 3) What does the law have to say about it? The investment profession?
- 4) How much transparency do **we** currently have in the portfolio? i.e. what is the status quo?
 - a) Public markets?
 - b) Private markets?

What questions can we answer today regarding concentration risk? Which can we not answer?
- 5) How much transparency do other similar funds have? How much do leading funds have?
- 6) What must be in place to gain greater transparency?
 - a) Systems
 - b) Consultants
 - c) Reporting capabilities
- 7) What are the expected costs associated with gaining greater transparency into concentration risk?
What are the expected benefits of added transparency for our portfolio?
- 8) What basic options/strategies are available to us for greater transparency into concentration risk?
 - a) Status quo?
 - b) Focus on public markets only? Private markets only?
 - c) A staggered approach
- 9) What are the pros/cons of each of the above options?

Above may involve a presentation(s) by the Board's investment advisors as well as staff.

PRACTICE EXAMPLE - EVERGREEN COUNTY RETIREMENT BOARD

Topic 2 Operational Risk

- 1) What is operational risk? What scope are we referring to?
- 2) What does the law have to say about it? The audit profession?
- 3) How do we currently address operational risk?
 - a) Internal and external audits?
 - b) Most recent risk assessment?
 - c) Enterprise-wide risk management?
 - d) Have we identified our major areas of risk ? What are they?
 - e) Where do we have high confidence that are risks are known and well managed? Less confidence?
 - f) Where are our biggest operational risk exposures?
- 4) What are our peers doing in this area? What are the leading practices? In what industry are they generally found?
- 10) What are the basic options/strategies available to us to enhance our operational risk management?
 - a) Status quo?
 - b) Increase internal resources?
 - c) Outsourcing?
 - d) A combination of the above
- 11) What are the pros/cons of each of the above options?

Above may involve a presentation(s) by the Board's audit advisors as well as staff.

PRACTICE EXAMPLE - EVERGREEN COUNTY RETIREMENT BOARD

Topic 3 – Responsible Investment

1. What is responsible investment? What scope are we referring to?
2. What is the spectrum of approaches to responsible investment?
 - a. Screening
 - b. Impact investing
 - c. ESG integration
 - d. Best-in-class selection
 - e. Active ownership
3. What does the law have to say about responsible investment? The investment profession? The regulators (e.g. DOL)
4. What are the different schools of thought regarding responsible investment?
5. What do we currently do in the area of responsible investment, if anything?
 - a. Proxy voting policy
 - b. Manager selection process (IPS)
 - c. Organizational practices
6. What are our peers doing in this area? What are the leading practices? US versus global practices?
7. What are the reasonable approaches available to us?
 - a. Costs and organizational implications
 - b. Benefits
 - c. Risks

Above may involve a presentation(s) by various parties sharing different schools of thought and/or approaches to responsible investment.

Thank You ...

Further Questions & Discussion
